PHILIPS

Philips Medical Systems DMC GmbH

SERVICE MANUAL
732
UNIT

Release Bulletin Console Compano S

R 1.1 L1

4512 201 01421

DMC Hamburg

Printed in Hamburg, Germany

© 2002 Philips Medical Systems
ALL RIGHTS RESERVED

SERVICE MANUAL - UNIT

Release Bulletin Console Compano S R 1.1 L1

Author: C. Siems

4512 201 01421

In case there are any questions concerning this manual,
please send this LOPAD via fax to +49 40 5078 - 2481

File: RELEASE BULLETIN PCR CONSOLE R1.1L1.DOC

List of pages and drawings (LOPAD)

Manual Order No: 4512 984 25101
released 01/2002

1
2
3 ...63 (02.0)

CD 4512 116 03801

© 2002 Philips Medical Systems
ALL RIGHTS RESERVED

Contents

1 Introduction 5
1.1 Conventions Used In The Text 5
1.2 Abbreviations And Acronyms 5
2 Release Information 6
2.1 Supplied Software 6
2.2 Supplied Documentation 6
3 Initial Software Installation and Configuration 7
3.1 Installing Windows 2000 7
3.2 Installing Ethernet card drivers 7
3.3 Installing Video drivers 9
3.3.1 Type 6558 9
3.3.2 Type 6790 10
3.4 Setting up the display resolution and power management 10
3.4.1 Display Resolution 10
3.4.2 Power Management 11
3.5 Installing Hotfixes for Windows 2000 12
3.6 Installing Touch Panel software 12
3.7 Regional Settings 14
3.8 Setting date and time 15
3.9 LAN properties 15
3.10 Changing the IP Name 16
3.11 Configuring the FTP server 17
3.12 Installing the Application Software 18
3.13 Option Key Installation 21
3.14 Setting up Auto Logon 22
3.15 Installing and setting up the Reader software 23
3.16 Initializing the Database 23
4 Configuration 25
4.1 Saving and Exiting 25
4.2 System Config 25
4.3 Reader Node 26
4.4 DICOM 27
4.4.1 This Host 27
4.4.2 The Other Node (DICOM print) 28
4.4.3 The Other Node (DICOM storage) 30
4.4.4 The Other Node (DICOM MWM) 31
4.5 Finish 32
5 First Start-Up 33
5.1 Checking the connection between the Console and Reader 33
5.2 Checking the Output Image 34
6 Using the Service Utility 37
6.1 Starting the Service Utility 37
6.2 Service Utility Main Menu 38
6.3 Database Utility 40
6.3.1 Image Database Initialization 40
6.3.2 Clear Output Queue 40
6.3.3 Patient Database Initialization 40
6.4 Backup and Restoring of the Configuration File 41
6.4.1 Backup 41
6.4.2 Restoring 41
7 Setup Configuration Item 42
7.1 SYSTEM CONFIG 43
7.1.1 IMAGE MODALITY 43
7.1.2 FINP SETUP 44
7.1.3 QA FUNCTION 45
7.1.4 PRINTER 45
7.1.5 CSL/IDT FUNCTION 47
7.2 PERSON NAME 50

© 2001 Philips Medical Systems
ALL RIGHTS RESERVED

7.3 NETWORK CONFIG 50
7.4 DISTRIBUTION CODE 50
7.5 CONNECTING EQUIPMENT 50
7.6 FILM SORTING 50
7.7 FINP COMPRESSION TYPE 50
7.8 IDT CONNECTING 50

8 Changing the Host Name of the PC 51

9 Changing the IP Addresses for Console and Reader 53
9.1 Changing the Reader configuration file 53
9.2 Changing the IP address of the Console PC 54

10 Un-Installing Software 56
10.1 Console Application 56
10.2 MSDE (SQL database) 56
10.3 Reader Application 57
10.4 Reader M-Utility 57
10.5 Option keys 58
10.6 Built_inConsole 58
10.7 FRIS modules 59

11 Error logging 60
11.1 Extending the log level 60
11.2 Viewing and monitoring log files 60
11.3 Event Viewer 61
11.4 Collecting log files 61

12 Communication with Philips Medical Systems 63

© 2001 Philips Medical Systems
ALL RIGHTS RESERVED

1 Introduction

This document contains:

- Release notes for the Console Compano S
- Procedures for installation and configuration of operating system and application software

Please note that the **complete software package must be installed** on the Compano PC **during initial installation** of the Compano system. Though Windows 2000 is pre-installed on the PC, it must be re-installed using the delivered bootable CD-ROM. Please follow the procedures described in chapter Initial Software Installation and Configuration on page 7 completely. Do not use the recovery function provided during startup of the PC ('IBM Product Recovery Program, press F11').

1.1 Conventions Used In The Text

- Text required to be input is shown in **Arial, bold,** *italics* (e.g. : ***shutdown***) in the format in which it is to be typed in (i.e. : A mixture of capital and non-capital letters)
- Computer displays / responses are shown in **`Courier`** and **bold** (e.g. : **`Press any key to continue`**)
- File names and directories are shown in **Arial** and **bold** (e.g. : **/csl/bin**)
- Keys are shown between the **< >** marks (e.g. : <Enter>, <Esc>, <Y> etc.)
- Soft keys are shown between the **[ ]** brackets (e.g. : [**OK**], [**Cancel**] etc.)
- When two or more keys are to be pressed at the same time, a + sign is used as a separator (e.g. : <CTRL> + <C>).
- Special attention to actions is preceded with the word **CAUTION.**
  (e.g. : **CAUTION : Do not switch off the system because**.....)
- **Check** means , **uncheck** means

1.2 Abbreviations And Acronyms

BIOS	Basic Input/Output System
CL	Console Compano S
CR	Computed Radiography
dbcs	double byte character set (asian character sets)
DICOM	Digital Imaging and Communication in Medicine
DRR	Dynamic Range Reconstruction (Philips Image Processing algorithm)
EDR	Exposure Data Recognizer
FINP	Fuji Image Network Protocol
FTP	File Transfer Protocol
FRUP	Fuji Reader Unit Protocol
HIS	Hospital Information System
MPPS	Modality Performed Procedure Step (DICOM RIS)
MSDE	Microsoft Server Desktop Environment
MWM	Modality Worklist Mangagement (DICOM RIS)
PACS	Picture Archiving and Communication System
PCR	Philips Computed Radiography
PDF	Portable Data Format
RIS	Radiology Information System
RU	Reader Unit = Reader
sbcs	single byte character set (western character sets)
SCP	Service Class Provider (DICOM equipment providing a service, e.g. printer)
SCU	Service Class User (DICOM equipment using a service, e.g. printing)
SOP	Service Object Pair (DICOM service)
TCP/IP	Transmission Control Protocol / Internet Protocol

© 2001 Philips Medical Systems
ALL RIGHTS RESERVED

2 Release Information

2.1 Supplied Software

Supplied Software
PCR Compano S R1.1 L1..... 4512 201 01421
- 1 CD-ROM Application Software 4512 116 04501
- 1 CD-ROM Operating System (Windows 2000)..... 4512 116 04901
- This Release Bulletin

Please note that Windows 2000 comes with Service Pack 2 already integrated on the CD-ROM. The CD contains also the latest hotfixes for Windows 2000 (\hot fixes) which must be installed.

Software Options
DICOM Print 4512 201 01431
DICOM Storage 4512 201 01441
DICOM Modality Work List Management 4512 201 01521

2.2 Supplied Documentation

A CD-ROM (PCR Compano Systems) is delivered with each PCR Compano system containing a complete set of Service documentation (Bulletins, Manuals, etc.) in PDF.

If further information is needed on the Console software which is not described in this Release Bulletin, please refer to the **Service Manual CR-IR346CL** on the CD-ROM. Please note that this manual is not available as paper copy.

© 2001 Philips Medical Systems
ALL RIGHTS RESERVED

3 Initial Software Installation and Configuration

Please note that the **complete software package must be installed** on the Compano PC **during initial installation** of the Compano system. Though Windows 2000 is pre-installed on the PC, it must be re-installed using the delivered bootable CD-ROM. **Please follow the instructions in this chapter completely**.

The following procedures have to be performed during initial installation of a PCR Preview Unit

- Windows 2000 installation
- Setting up Windows (driver installation, keyboard layout, date&time, network...)
- Perform setup for Reader operations
- PCR Compano S application installation and configuration

3.1 Installing Windows 2000

1. Make sure the PC is connected to the network, then switch on PC and monitor.

2. When the first messages are displayed on the screen, press <Pause> to stop booting.

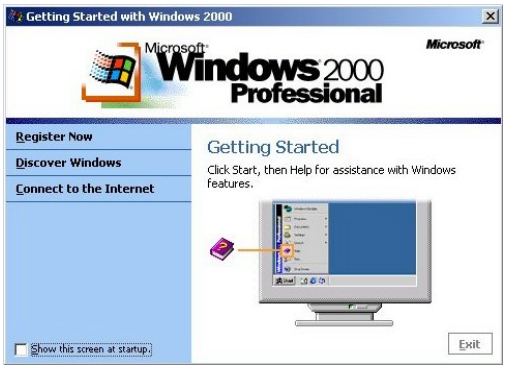
3. Insert the **Windows 2000** CD-ROM into the drive, then press any key to resume booting.

4. When **`Press any key to boot from CD`** is displayed : **press any key**.

   If **`"Starting Windows"`** is displayed the PC is booting from hard disk and not from CD. Switch off the PC and try again.

> If **`Press any key`** is not displayed the possibility exists that the BIOS is not set up to boot from CD. Please check the BIOS settings according to the Service manual **PCR Preview Unit/ Console Compano S**.

5. About 20 minutes later the Windows software installation is complete. The **Welcome** screen is displayed.



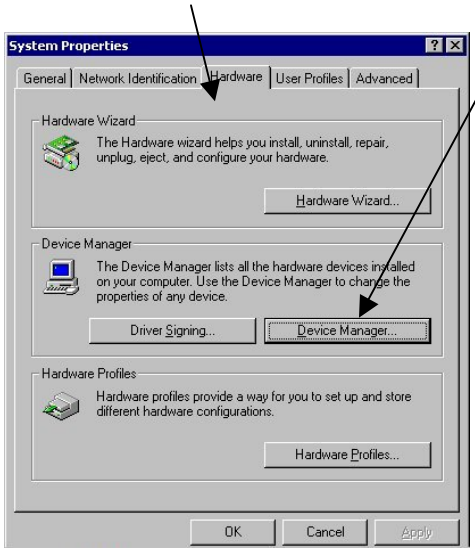
6. Uncheck ☐ Show this screen at startup. and click **[Exit]**.

3.2 Installing Ethernet card drivers

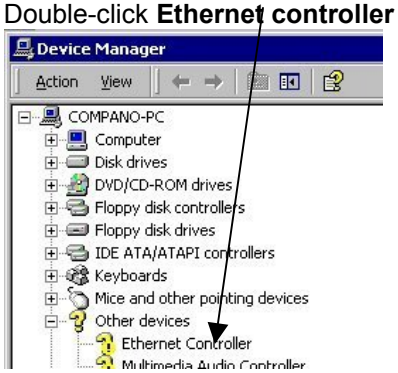
1. Right-click My Computer and select [**Properties**].

© 2001 Philips Medical Systems
ALL RIGHTS RESERVED

2. Select the **Hardware** tab and click **Device Manager**.


System Properties
General
Network Identification
Hardware
User Profiles
Advanced
Hardware Wizard
The Hardware wizard helps you install, uninstall, repair, unplug, eject, and configure your hardware.
Hardware Wizard...
Device Manager
The Device Manager lists all the hardware devices installed on your computer. Use the Device Manager to change the properties of any device.
Driver Signing...
Device Manager...
Hardware Profiles
Hardware profiles provide a way for you to set up and store different hardware configurations.
Hardware Profiles...
OK
Cancel
Apply

3. Double-click **Ethernet controller** to display its menu.

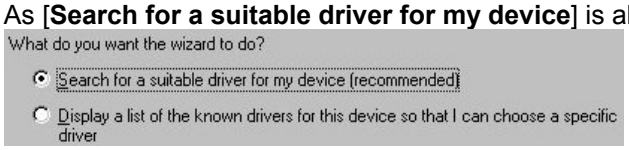


4. Click [**Driver**] tab and click [**Update Driver**].

Ethernet Controller Properties
General
Driver
Resources
Ethernet Controller
Driver Provider: Unknown
Driver Date: Not available
Driver Version: Not available
Digital Signer: Not digitally signed
No driver files are required or have been loaded for this device. To uninstall the driver files for this device, click Uninstall. To update the driver files for this device, click Update Driver.
Driver Details...
Uninstall
Update Driver...
OK
Cancel

5. The **Upgrade Device Driver Wizard** appears. Click [**Next**].

6. As [**Search for a suitable driver for my device**] is already selected, click [**Next**]:

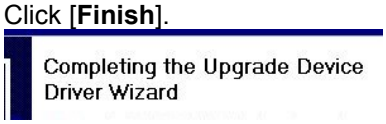

What do you want the wizard to do?
Search for a suitable driver for my device (recommended)
Display a list of the known drivers for this device so that I can choose a specific driver

7. Check **CD-ROM drives** and click [**Next**].

© 2001 Philips Medical Systems
ALL RIGHTS RESERVED

8. The system should find the appropriate info file **net8255a.inf.**
   Click [**Next**]. The system copies files to hard disk.

9. Click [**Finish**].



10. Click [**Close**].

11. The Ethernet card should now be available:

12. Continue with installing the video drivers

3.3 Installing Video drivers

Depending on the delivered IBM PC there are different ways to install the drivers for the video card.
The current types of IBM PC used are: 6568 (Netvista A40, the white one) and 6790 (Netvista M41, the black one). The identification label can be found at the front cover of the PC.

3.3.1 Type 6558

1. Double-click **Video controller** to display its menu.

2. Click [**Driver**] tab and click [**Update Driver**].

3. The **Upgrade Device Driver Wizard** appears. Click [**Next**].

4. As [**Search for a suitable driver for my device**] is already selected, click [**Next**]:

5. As **CD-ROM drives** should be already selected, click [**Next**].

6. The system should find the appropriate info file **i81xnt5.inf.**

7. Click [**Next**]. The system copies files to hard disk.

8. Click [**Finish**]:

9. Now the system asks to restart the computer. Click [**Yes**].

During restart the system asks to enter the password for the Administrator: click [**OK**].

© 2001 Philips Medical Systems
ALL RIGHTS RESERVED

3.3.2 Type 6790

1. Startup the Windows Explorer by pressing <Windows>+<E>.

2. Browse to the directory **IBM\Netvista M41\Drivers\Video** on the CD-ROM.

3. Double-click the file **Setup**.

4. At the **Welcome to the InstallShield Wizard** window click [**Next**].
   The system installs files.

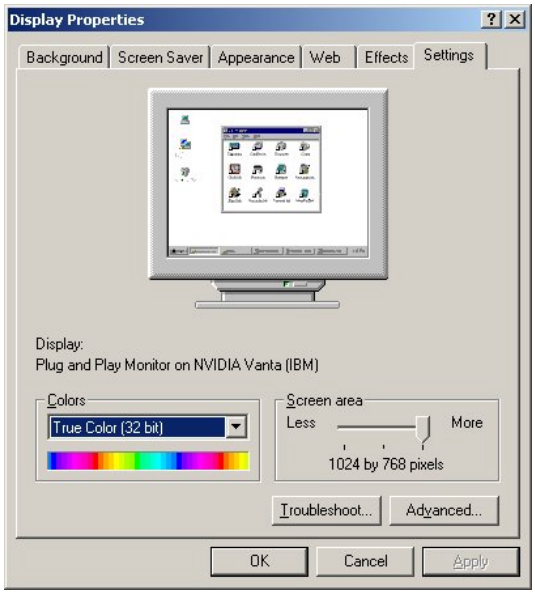
5. At the **InstallShield Wizard complete** window click [**Finish**].
   The systems performs a reboot.

During restart the system asks to enter the password for the Administrator: click [**OK**].

3.4 Setting up the display resolution and power management

3.4.1 Display Resolution

1. Right-click the desktop and click [**Properties**].
   The **Display Properties** window appears.



2. Select the **Settings** tab.

3. Set **Colors** to: True color (24 or 32bit)
   Set **Screen Area** to: see table below

Display Size and Type	Resolution
15" LCD	1024 by 768
15" CRT	1024 by 768
17" LCD	1280 by 1024
17" CRT	1280 by 1024
18" LCD	1280 by 1024
18" CRT	1280 by 1024

The table shows example settings which may not be the optimal choice for the display to be installed. Therefore refer also to the manual of the display for choosing the best resolution.

Please note that LCDs use fixed resolutions. Using other resolutions force the display to interpolate the resolution, resulting in bad image quality.

© 2001 Philips Medical Systems
ALL RIGHTS RESERVED

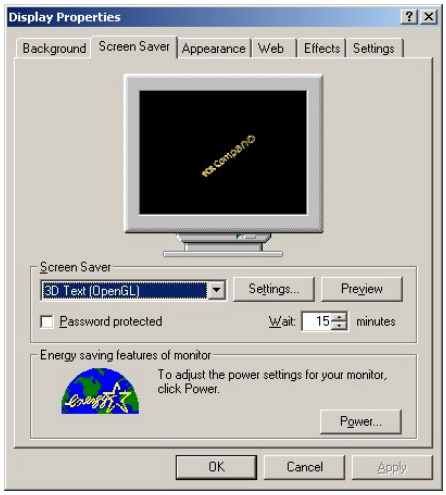
4. Click [**Apply**] to confirm the **Confirm Desktop Change** window.

5. When asked to keep the settings, click [**OK**], then [**Yes**].

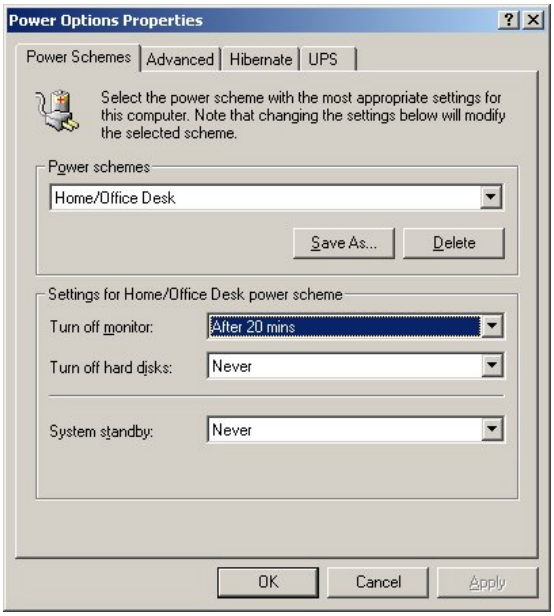
3.4.2 Power Management

If the settings for the power management of Windows 2000 needs to be changed, follow the procedure below.

1. From the **Display Properties** window select the **Screen Saver** tab.



2. Click [**Power...**] to configure the Advanced Power Management.



- Select the desired time for **Turn off monitor**.
- It is recommended to leave **Turn off hard disks** and **System standby** to **Never.**

When done click [**OK**] and again [**OK**] to close the **Display properties** window.

© 2001 Philips Medical Systems
ALL RIGHTS RESERVED

3.5 Installing Hot fixes for Windows 2000

1. Startup the Windows Explorer by pressing <**Windows**>+<**E**>.
2. Browse to the directory **Hot fixes** on the CD-ROM.
3. Double-click on the file **Q300972_W2K_SP3_x86_en.EXE**. This hotfix is a security update against the so-called Code Red virus.
4. Follow the instructions on the screen.
5. When done, remove the CD-ROM from the drive.

3.6 Installing Touch Panel software

If a Touch Panel is used for visualization, a driver needs to be installed which came together with the Touch Panel.

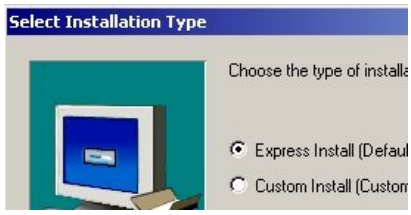
If a Touch Panel is used which is not delivered by PMS Hamburg, install the software according to the associated documentation and skip this paragraph.

If a panel from **MicroTouch** is used follow the procedure below.

1. Insert the driver CD into the CD-ROM drive. The TouchWare install menu starts within a few seconds.
2. Click [**Install TouchWare**].

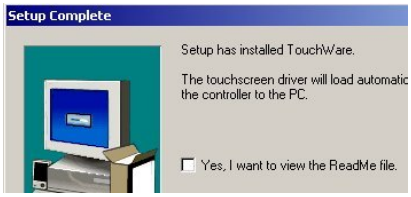
3. The Welcome screen is displayed, click **[Next]**.
4. The License Agreement window is displayed, click **[Yes]**.
5. Click **[Next]**:

6. Click **[Next]**:

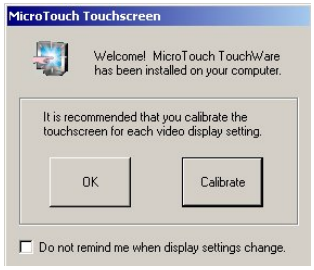


© 2001 Philips Medical Systems
ALL RIGHTS RESERVED

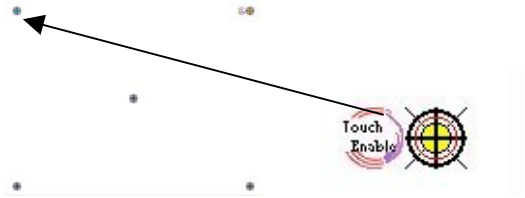
7. The system is copying files. When done, the system asks if the **ReadMe** file shall be viewed. Uncheck the field and click [**Finish**]:


Setup Complete
Setup has installed TouchWare.
The touchscreen driver will load automatic
the controller to the PC.
Yes, I want to view the ReadMe file.

8. Click [**Calibrate**]. The calibration screen opens.


MicroTouch Touchscreen
Welcome! MicroTouch TouchWare has been installed on your computer.
It is recommended that you calibrate the touchscreen for each video display setting.
OK
Calibrate
Do not remind me when display settings change.

9. With a finger gently touch the mark at the upper left of the window for at least **4 seconds** and wait until **Touch Enabled** is displayed. Proceed with the other marks (they blink in sequence).

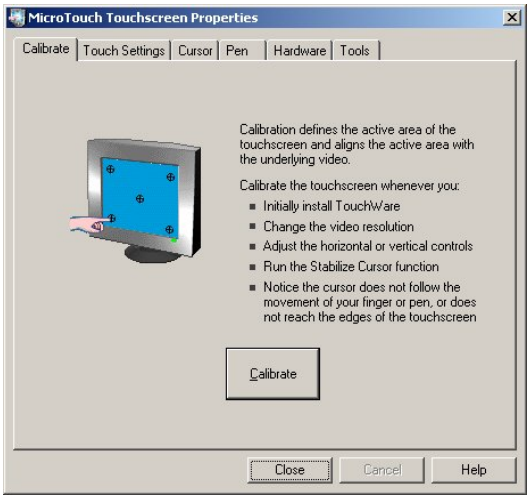


10. When finished, the panel saves the calibration data.
    When prompted, click [**Done**].

11. Click [**Close**].

12. Remove the CD from the drive.

For changing the settings of the touch screen (touch sensitivity, beep, speed of double-click, etc.) double-click the Microtouch icon on the desktop:


MicroTouch Touchscreen Properties
Calibrate
Touch Settings
Cursor
Pen
Hardware
Tools
Calibration defines the active area of the touchscreen and aligns the active area with the underlying video.
Calibrate the touchscreen whenever you:
Initially install TouchWare
Change the video resolution
Adjust the horizontal or vertical controls
Run the Stabilize Cursor function
Notice the cursor does not follow the movement of your finger or pen, or does not reach the edges of the touchscreen
Calibrate
Close
Cancel
Help

© 2001 Philips Medical Systems
ALL RIGHTS RESERVED

3.7 Regional Settings

The **regional settings** (date & time format, keyboard layout) of Windows are **pre-configured** for the **U.S.A**. When the site is located in the U.S. this paragraph may be skipped.

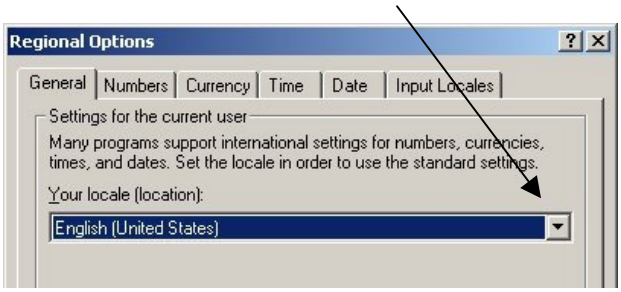
1. **Double**-click

, double-click

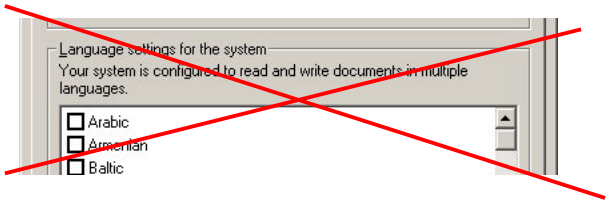
, double-click

.

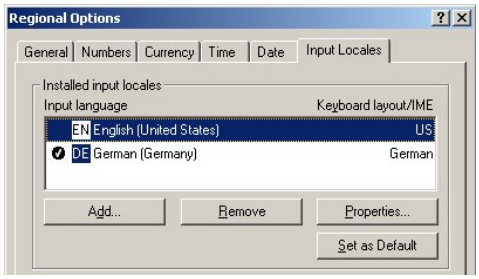
2. Select the location from the list and click [**Apply**].



3. **Do not** select any of the language settings:


Language settings for the system
Your system is configured to read and write documents in multiple languages.
Arabic
Armenian
Baltic

4. Click **Input Locales** tab.



5. Select **EN English (United States)** and click [**Remove**].

6. Click [**OK**] to confirm. An error message may be displayed telling that the driver is in use: click [**OK**].

7. Click [**X**] to close the **Control Panel** window.

© 2001 Philips Medical Systems
ALL RIGHTS RESERVED

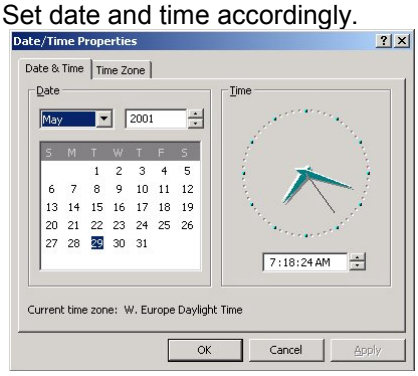
3.8 Setting date and time

This paragraph describes how to set date and time.

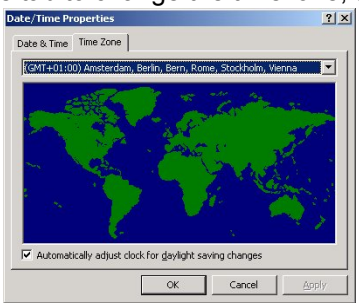
1. To set date, time and timezone settings double-click on the clock

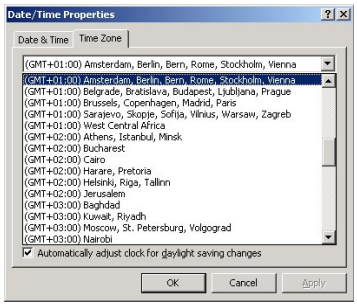
.

2. Set date and time accordingly.



3. Click the timezone tab to change the timezone, then select a timezone from the list. When done click [**OK**]:





3.9 LAN properties

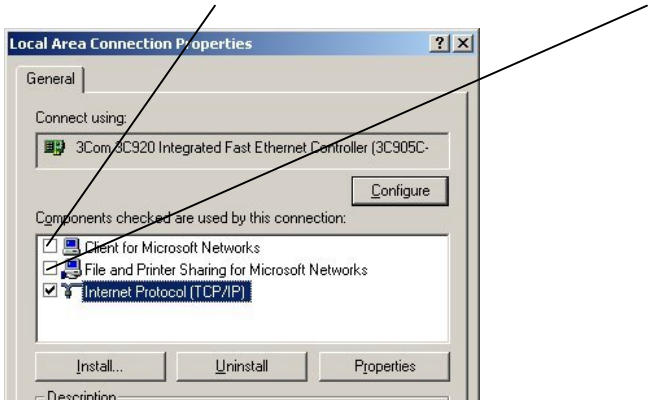
1. Right-click

and select **[Properties]**.

2. Right-click

and select **[Properties]**.

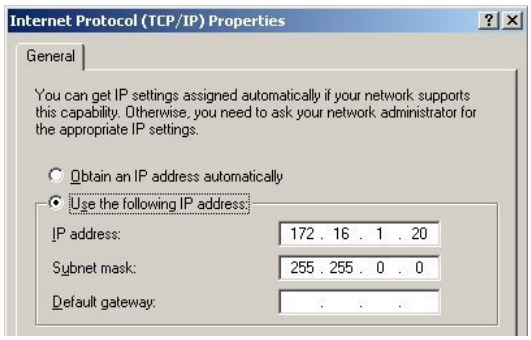
3. Uncheck **Client for Microsoft Networks** and **File and Printer Sharing...**



4. Select **Internet Protocol (TCP/IP)** , click [**Properties**].

© 2001 Philips Medical Systems
ALL RIGHTS RESERVED

5. Select **Use the following IP address** and enter the values for IP address, netmask and (if applicable) gateway.


Internet Protocol (TCP/IP) Properties
General
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address: 172 . 16 . 1 . 20
Subnet mask: 255 . 255 . 0 . 0
Default gateway:

6. Click [**OK**] to make changes effective.
   Depending on the selected configuration, closing the window may take a few seconds. It is also possible that the system asks for a restart. Do not restart now, it will be done later on.

7. Click [**OK**].

8. Click [**X**] to close the window.

3.10 Changing the IP Name

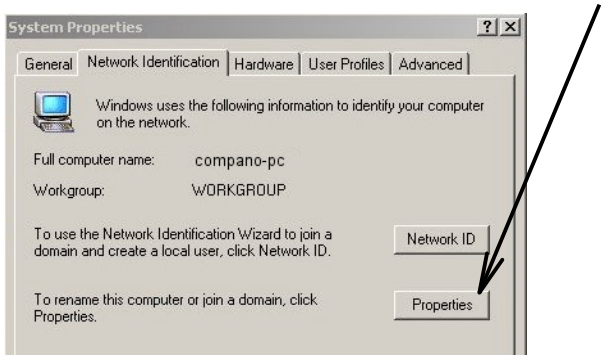
The default computer name (host name, IP node name) for the PC is **compano-pc**. If it needs to be changed, follow the procedures in this paragraph.

> **Note:** If the computer name needs to be changed after the application software has been installed, the MSDE database must be un-installed. See chapter "Uninstalling the software".

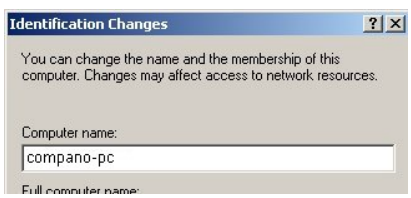
1. Right-click

and select **[Properties]**.

2. Select **Network Identification** tab and click [**Properties**].


System Properties
General
Network Identification
Hardware
User Profiles
Advanced
Windows uses the following information to identify your computer on the network.
Full computer name: compano-pc
Workgroup: WORKGROUP
To use the Network Identification Wizard to join a domain and create a local user, click Network ID.
Network ID
To rename this computer or join a domain, click Properties.
Properties

3. Change the **Computer Name** : this is the host or IP name.


Identification Changes
You can change the name and the membership of this computer. Changes may affect access to network resources.
Computer name:
compano-pc

4. Click [**OK**].

© 2001 Philips Medical Systems
ALL RIGHTS RESERVED

5. The **You must reboot this computer** message is displayed: click [**OK**].
6. Click [**OK**] to close the **System Properties** window.
7. Now the system asks to restart the computer. Click [**Yes**].
8. During restart the system asks to enter the password for the Administrator: click [**OK**].

3.11 Configuring the FTP server

Now we need to configure the FTP user, allowing the Reader to access the Windows FTP server.

1. Double-click

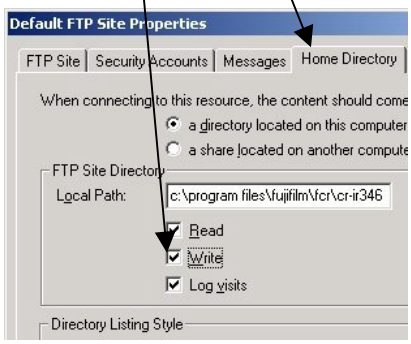
, double-click

, double-click

, double-click

2. Double-click on the icon in the left column (the computer name may differ).
3. Right-click **Default FTP Site** and select **Properties**.

4. Click **Home Directory** tab
5. Check the **Write** box.



6. Click [**OK**].
7. Click [**X**] to close the window.

© 2001 Philips Medical Systems
ALL RIGHTS RESERVED

3.12 Installing the Application Software

1. Insert the CD **Console Compano S 1.1 L1** into the CD-ROM drive. Within a few seconds the **PCR Compano S Setup Tool** is started:

```
PCR Compano S Setup Tool
Main Menu
      0)Quit
      1)Install MSDE and SQL7SP2
      2)Install Application (IIP)
      3)Install Parameter Files (Anatomy Database, Processing Parameter, etc.)
      4)Install Built_in Console
      5)Install FRIS Modules
      ---
      9)Install Application key
```

2. Press <1> and <Enter>.

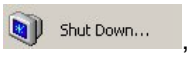
```
Installing MSDE, please wait...
MSDE installation completed.

Installing SQL7SP2, please wait...
SQL7SP2 installation completed.
```

   The installation of MSDE and SQL database is started and takes about 10 minutes. When done, the main menu appears again.

3. Now we need to restart the system to activate the database:

   Press <0> and <Enter> to leave the menu.

   Click

, click 

, select

and click [**OK**].

4. When Windows is up and running again, make sure that the following icon is displayed in the taskbar, indicating that the database is up and running:

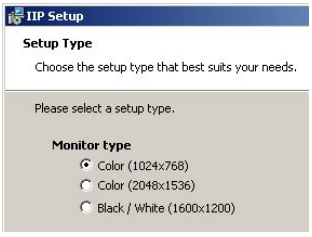
   Please note that the **database must be running to continue** with installing the main application.

5. Re-insert the CD to start the setup main menu again.

6. Press <2> and <Enter>. The installation of the main application (IIP) is started.

7. Click **[Next]**:

8. Select the appropriate display resolution and click **[Next]**:



   Please note that the application software does not support other resolutions. If another video mode has been configured for Windows, buttons may appear too large or too small within the user interface.

© 2001 Philips Medical Systems
ALL RIGHTS RESERVED

9. Click **[Install]**:

10. Installing IIP application takes about 5 minutes. When done a window is displayed:

```
Converting Image Database is in progress...
Normal end.
Creating Image Database is in progress...
.
.
Normal end.
Press any key to continue...
```

Press any key.

11. In a few seconds the following messages are displayed.

```
Converting Patient Database is in progress...
Normal end.
Press any key to continue...
```

Press any key.

12. In the next seconds the following messages are displayed.

```
Initializing Worklist Database is in progress...
Normal end.
Press any key to continue...
```

Press any key.

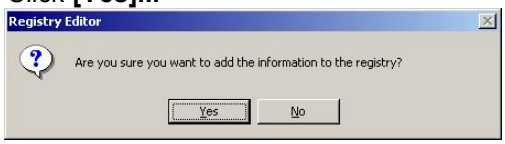
13. Click **[Finish]**.

14. Now, 8 standard option keys are going to be installed. Just click [**Continue**], then [**OK**] for 8 times.

8 x
IIP Option Key (Scanner Connection (FRUP))
The program will make the Option Key in this System.
Continue
Cancel
IIP Option Key (Scanner Connection (FRUP))
The program has successfully finished.
Now, 'Scanner Connection (FRUP)' option is available on this system.
OK

© 2001 Philips Medical Systems
ALL RIGHTS RESERVED

15. Click **[Yes]...**



...then **[OK]**.

16. When done, the setup main menu is displayed again.

17. Press <3> and <Enter>. The installation of the language specific parameter files (Anatomy database) is started.

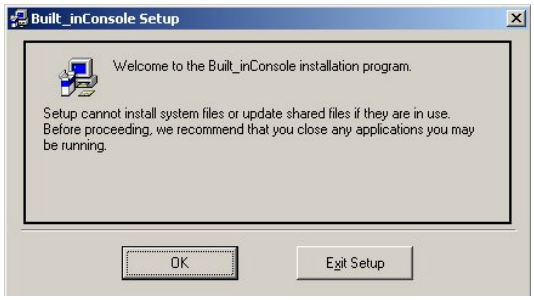
18. Enter the number for the language of your choice. Installing the database is done within a few seconds.

```
. . .
Parameter Files installation completed.
```

19. When done, the setup main menu is displayed again.

20. Press <4> and <Enter>. The installation of the software for the **Built_inConsole** is started.

21. Click [**OK**] to start installation.


Built_inConsole Setup
Welcome to the Built_inConsole installation program.
Setup cannot install system files or update shared files if they are in use. Before proceeding, we recommend that you close any applications you may be running.
OK
Exit Setup

22. The **Begin the installation** screen is displayed.

Click . The system copies files...

23. When done, click [**OK**].

24. The system asks now to restart the system, click [**No**].

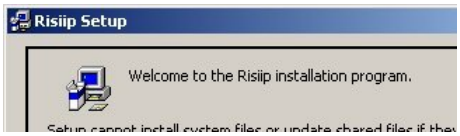
Setup
You must restart Windows in order to complete setup.
Do you want to restart Windows now? Windows and/or your application may not work properly until Windows is restarted.
Yes
No

25. When done, the setup main menu is displayed again.

© 2001 Philips Medical Systems
ALL RIGHTS RESERVED

26. Press <5> and <Enter>. The installation of the software for **FRIS** is started.

27. Click [**OK**]:



28. Click . The system copies files...

29. Make sure **Fuji Film** is entered and click [**Continue**]:

Risiip - Choose Program Group
Setup will add items to the group shown in the Program Group box.
You can enter a new group name or select one from the Existing Groups list.
Program Group:
Fuji Film

30. During installation the system asks 8 times if an existing file should be kept: Click always [**Yes**].

8 x
Version Conflict
A file being copied is older than the file currently on your system. It is recommended that you keep your existing file.
File name: 'C:\WINDOWS\System32\
Description: 'Microsoft (R) C Runtime Library
Your version: '6.1.8924.0'
Do you want to keep this file?
Yes
No
No to All

31. When setup has successfully completed click [**OK**].

32. When done, the setup main menu is displayed again. Press <0> and <Enter>.

33. Remove the CD from the CD-ROM drive.

34. Proceed with the option keys.

3.13 Option Key Installation

For each software option one CD is supplied on one dedicated CD-ROM. The following option keys are available

- DICOM Storage
- DICOM Print
- DICOM Modality Worklist Management

The installation procedure is described below and is valid for all option keys. The keys can be installed in any order.

© 2001 Philips Medical Systems
ALL RIGHTS RESERVED

1. Insert an option key CD into the CD-ROM drive. The installation start window automatically opens in several seconds.

2. Click [**Continue**]. A window opens to indicate the completion of installation. Note that the indication varies with the option key.

IIP Option Key (Scanner Connection (FRUP))
The program has successfully finished.
Now, 'Scanner Connection (FRUP)' option is available on this system.
OK

3. Click [**OK**]. The system returns to the desktop screen.
4. Remove the CD from the CD-ROM drive.

➢ Repeat steps 1 to 4 for every available option.

5. When done insert the CD **PCR Compano S 1.1 L1** into the CD-ROM drive. Within a few seconds the **PCR Compano S Setup Tool** is started:

```
PCR Compano S Setup Tool
Main Menu
      0)Quit
      1)Install MSDE and SQL7SP2
      2)Install Application (IIP)
      3)Install Parameter Files (Anatomy Database, Image Processing Parameters, etc.)
      4)Install Built_in Console
      5)Install FRIS Modules
      ---
      9)Install Application key
```

6. Press <9> and <Enter>. The installation of the application key is started.
7. Click [**Continue**], click [**OK**].
8. Press <0> and <Enter> to leave the main menu, then remove the CD from the CD-ROM drive.

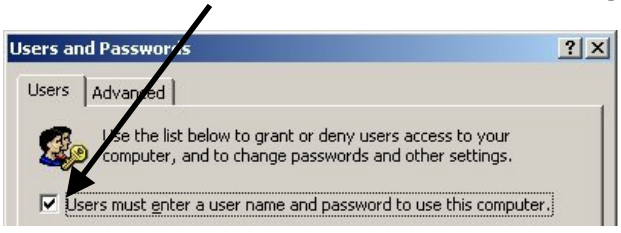
3.14 Setting up Auto Logon

1. Double-click

, double-click

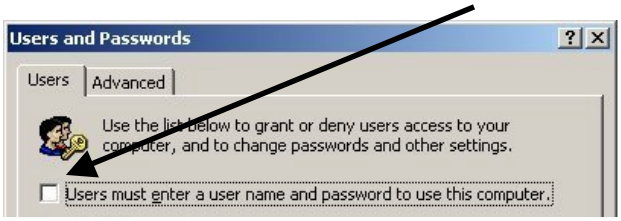
, double-click

2. Check **Users must enter a user name...** and click [**Apply**].


Users and Passwords
Users
Advanced
Use the list below to grant or deny users access to your computer, and to change passwords and other settings.
Users must enter a user name and password to use this computer.

© 2001 Philips Medical Systems
ALL RIGHTS RESERVED

3. Even if it sounds stupid : Uncheck **Users must enter a user name...** and click [**OK**].


Users and Passwords
Users
Advanced
Use the list below to grant or deny users access to your computer, and to change passwords and other settings.
Users must enter a user name and password to use this computer.

4. Enter **no** password and click [**OK**].

Automatically Log On
You can set up your computer so that users do not have to type a user name and password to log on. To do this, specify a user that will be automatically logged on below:
User name:
Administrator
Password:
Confirm Password:
OK
Cancel

5. Click [**X**] to close the **Control Panel** window.

3.15 Installing and setting up the Reader software

Now, the Service and application software for the Reader needs to be installed. Please refer to the installation procedures in the Release Bulletin for the Compano Reader. When done, continue with paragraph 3.16 below.

3.16 Initializing the Database

1. Now we need to restart the system:

   Click

, click

, select

and click [**OK**].

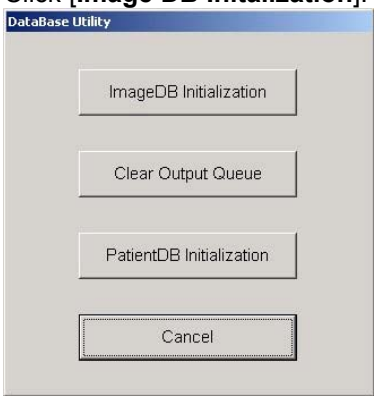
2. After about one minute the Console Application starts.
   When the initial window opens, sequentially **click** its upper **left** and upper **right** corners **within 5 seconds**.

   The **Service Utility Main Menu** opens.

3. Click [**Database Utility**].

© 2001 Philips Medical Systems
ALL RIGHTS RESERVED

4. Click [**Image DB Initalization**].



5. A command prompt window opens, displaying the following messages:

```
Image database Initialization is in progress...
Normal end.
Press any key to continue...
```

   Press any key.

6. Click [**Cancel**].

Proceed with chapter Configuration.

© 2001 Philips Medical Systems
ALL RIGHTS RESERVED

4 Configuration

The procedures in this chapter describe a minimum of steps to configure a PCR Compano S system. Please perform each paragraph. For further information on the configuration program please refer to chapter Setup Configuration Item on page 42. For detailed information please refer to the **Service Manual CR-IR346CL** on CD-ROM (PCR Compano systems documentation).

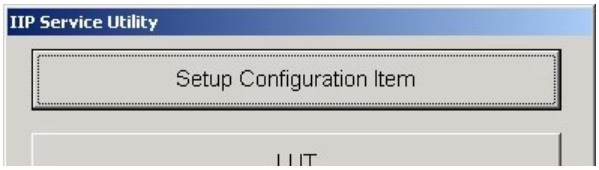
Please note that the system does not allow equal names for **Host Name** and **Application Entity Name**. They must be different.

4.1 Saving and Exiting

To save the settings: Click **Config(F)**, click **Save**, click [**Yes**].
To exit the config program: Click **Config(F)**, click **Close.**

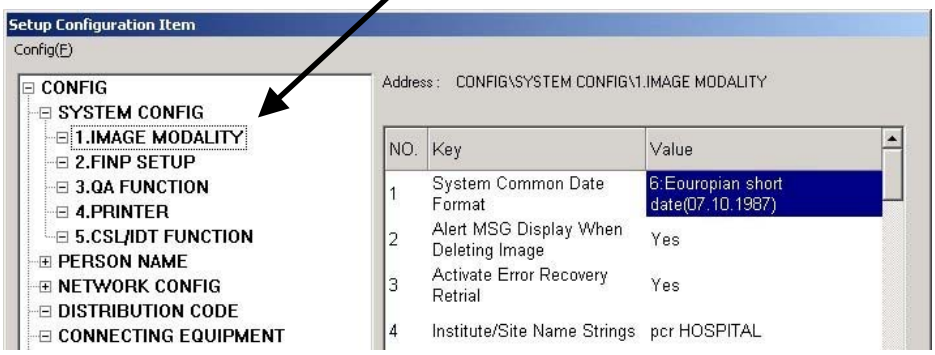
4.2 System Config

1. Enter Service menu and select **Service Configuration Item**.



2. Double-click **SYSTEM CONFIG**, click **IMAGE MODALITY** and adapt at least the following items.

   1 System Common Date Format
   4 Institute/Site Name
   5 IP size (inch/metric)
   7 Language



   For further information please refer to the **Service Manual CR-IR346CL** on CD-ROM (PCR Compano systems documentation).

3. Save the settings: Click **Config(F)**, click **Save**, click [**Yes**].

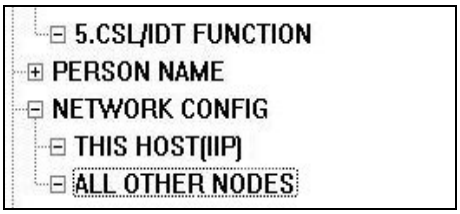
© 2001 Philips Medical Systems
ALL RIGHTS RESERVED

4.3 Reader Node

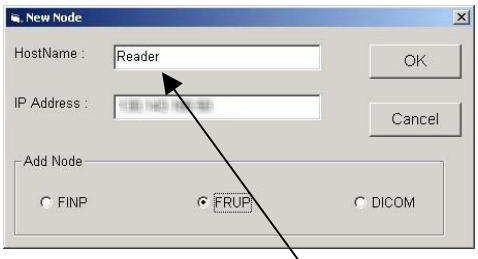
This paragraph describes how to configure the connection to the Compano Reader.

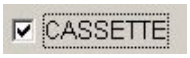
1. Double-click **NETWORK CONFIG.**

2. Click [**ALL OTHER NODES**] and click [**NEW**].



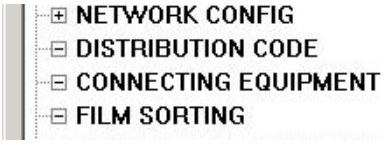
3. Enter host name and IP address of the Reader, select **FRUP**, click [**OK**].



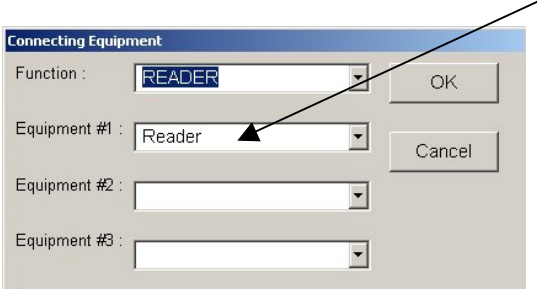
4. Check 

and click [**OK**].

5. Click **CONNECTING EQUIPMENT**, click [**NEW**].



6. From the **Function** list select **READER**.
   From the **Equipment#1** list select the node name of the Reader which has been configured before.



7. Click [**OK**].

© 2001 Philips Medical Systems
ALL RIGHTS RESERVED

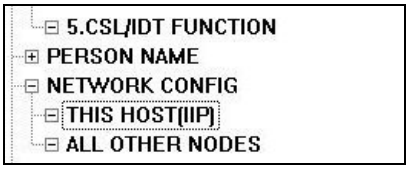
4.4 DICOM

This paragraph describes how to configure DICOM nodes.

4.4.1 This Host

... is meant for this PC.

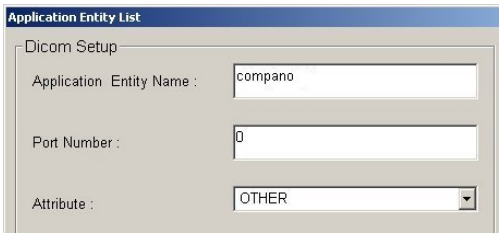
1. Within **NETWORK CONFIG** click **THIS HOST.**



2. Click [**NEW**].

3. Click **DICOM**, click [**OK**].

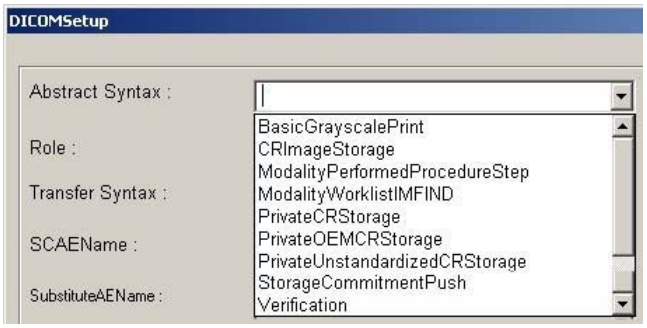
4. Enter
Application Entity Name of the Compano PC (e.g.: compano).
Port Number: 0
Attribute: OTHER



5. Click [**NEW**].

6. Now select an **Abstract Syntax** (see list below) and select as Role **SCU**.

BasicGrayscalePrint : DICOM Print
CRImageStorage : DICOM Storage
ModalityWorklistIMFIND : DICOM MWM



MultiByte is meant for asian character sets only.

When done, click [**OK**].

© 2001 Philips Medical Systems
ALL RIGHTS RESERVED

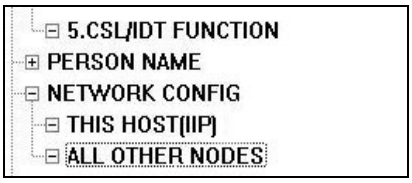
7. Repeat steps 5 and 6 for every available option (print, storage, MWM).

8. Click [OK].

4.4.2 The Other Node (DICOM print)

... is meant to configure a DICOM printer.

1. Click [**ALL OTHER NODES**], click [**NEW**].

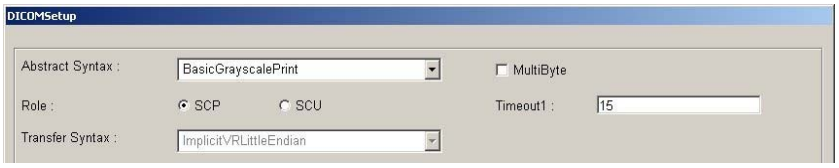


2. Enter **host name** and **IP address** of the DICOM printer.
Click **DICOM**, click [**OK**].

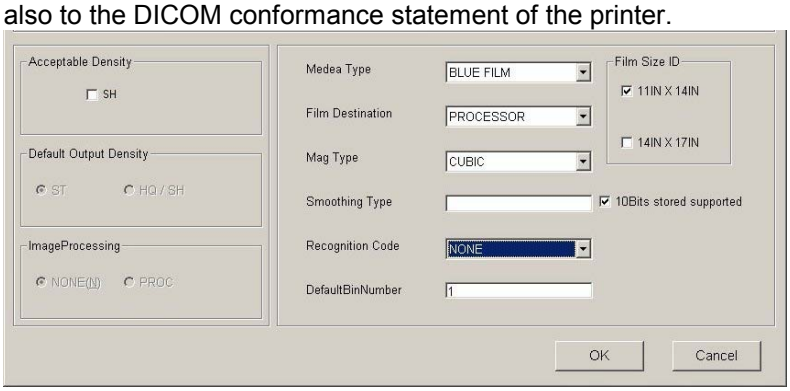
3. Enter **Application Entity Name** and **Port Number** of the printer and select the attribute **PRINT** from the list.

4. Click [**NEW**].

5. Select
Abstract syntax: BasicGrayscalePrint
Role : SCP



6. Select the appropriate settings for the printer like media type, film size etc. (see next page). Please refer also to the DICOM conformance statement of the printer.



© 2001 Philips Medical Systems
ALL RIGHTS RESERVED

Item	Option	Meaning	Remark
Media Type	BLUE FILM	Film having a blue background	
	CLEAR FILM	Film with transparent background	
	PAPER	Paper	
Film destination	MAGAZINE	Magazine	
	PROCESSOR	Processor	
	BIN_I	Printer trays	
Film size ID	8"x10", 11" X 14", 14" X 17"		
Mag Type	REPLICATE	Replicate method	Image interpolation method
	BILINEAR	Bilinear method	
	CUBIC	Replicate method	
	NONE	No interpolation	
Smoothing Type	A character string		This setting takes effect only when "CUBIC" is selected as the image interpolation method. As "a character string", write the character string that is defined in the Conformance Statement for the output destination printer.
Recognition Code	REQ-SRV	Requesting department	Information for identifying the BIN number that is used to specify the film output destination (printer trays) (character string: information matching the information attached to image data)
	DEV-CODE	Image generation device (machine shipment control identification code)	
	MPM	MPM code	
	BODY-PART	Exposure anatomical region	
	NONE	No setting	
Default BIN Number	BIN-number-indicating number		BIN number for printing images without matching collation values
10Bits Stored Supported	Checked	Generates outputs.	Under normal conditions, the "Generates outputs" option should be selected.
	Unchecked	Does not generate outputs.	
SH	not used		leave "unchecked"

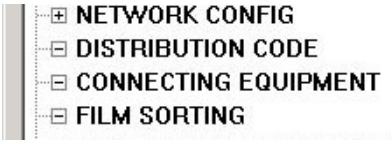
7. Click [**OK**].

8. Click [**OK**].

4.4.2.1 Setting up Auto Print

To set up the previously configured printer for auto print when a study has been completed, the printer needs to be registered under **CONNECTING EQUIPMENT**:

1. Click **CONNECTING EQUIPMENT**, click [**NEW**].



2. From the **Function** list select **PRINT**.
   From the **Equipment#1** list select the node name of the archive as configured before.

3. Click [**OK**].

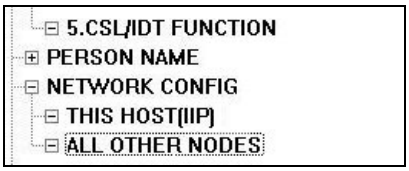
© 2001 Philips Medical Systems
ALL RIGHTS RESERVED

4.4.3 The Other Node (DICOM storage)

This paragraph describes how to configure a DICOM storage SCP like an archive or a workstation (e.g. EasyVision).

Note : On EasyVision the Console needs to be configured as a new DICOM node. Use port number **0** for the Console.

1. Click [**ALL OTHER NODES**].

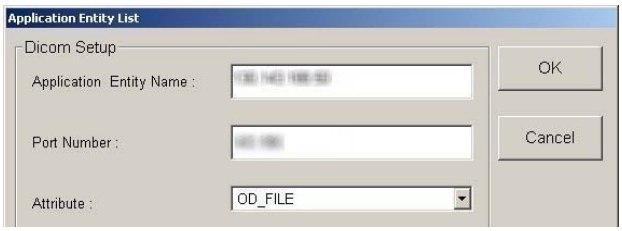


2. Click [**NEW**].

3. Enter host name and IP address of the DICOM storage SCP.

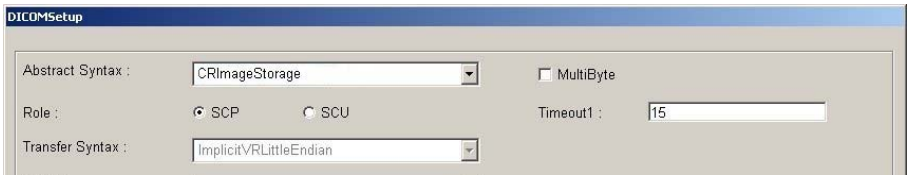
4. Click **DICOM**, click [**OK**].

5. Enter **Application Entity Name** and **Port Number**.
Select the attribute **OD_FILE** from the list.



6. Click [**NEW**].

7. Select
Abstract syntax: CRImageStorage
Role : SCP



8. Click [**OK**].

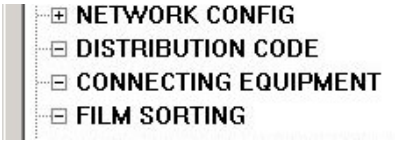
9. Click [**OK**].

© 2001 Philips Medical Systems
ALL RIGHTS RESERVED

4.4.3.1 Setting up Auto Export

To set up the previously configured DICOM storage SCP for auto export, it needs to be registered under **CONNECTING EQUIPMENT**:

1. Click **CONNECTING EQUIPMENT**, click [**NEW**].



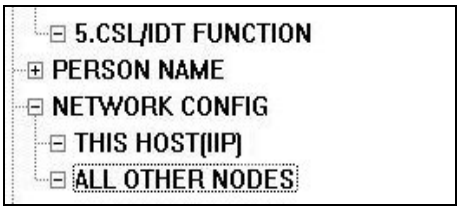
2. From the list select the Function **OD_FILE**.
   From the list **Equipment#1** select the node name of the DICOM Storage SCP as configured before.

3. Click [**OK**].

4.4.4 The Other Node (DICOM MWM)

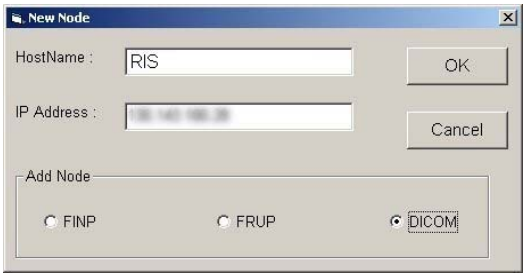
This paragraph describes how to configure the DICOM MWM RIS within the Console's configuration.

1. Click [**ALL OTHER NODES**].



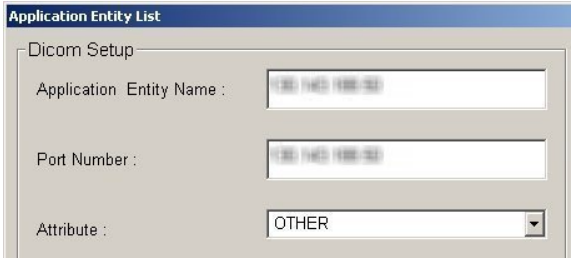
2. Click [**NEW**].

3. Enter host name and IP address of the DICOM RIS server.



4. Click **DICOM**, click [**OK**].

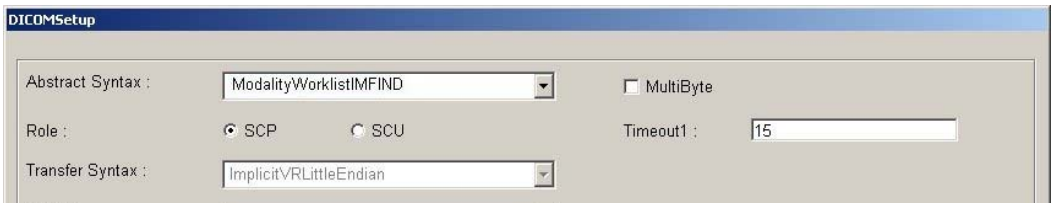
5. Enter **Application Entity Name** and **port number** of the DICOM RIS server.
   Select the attribute **OTHER** from the list.



6. Click [**NEW**].

© 2001 Philips Medical Systems
ALL RIGHTS RESERVED

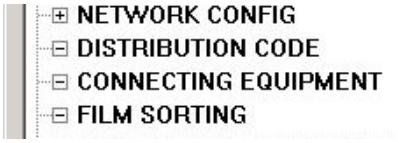
7. Select
   Abstract syntax: ModalityWorklistIMFIND
   Role : SCP



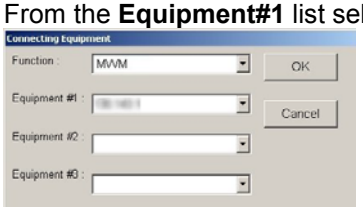
8. Click [**OK**].

9. Click [**OK**].

10. Click **CONNECTING EQUIPMENT**, click [**NEW**].



11. From the **Function** list select **MWM**.
    From the **Equipment#1** list select the node name of the DICOM RIS as configured before.



4. Click [**OK**].

4.5 Finish

Configuring the system is now done. Save the configuration and leave the service utility. The system is now ready to continue with chapter First Start-Up on page 33.

For detailed "fine tuning" of the configuration please refer to chapter Setup Configuration Item on page 42**.**

© 2001 Philips Medical Systems
ALL RIGHTS RESERVED

5 First Start-Up

The steps to be performed:
- Checking the connection between the Console and Reader
- Checking the connection between the Console and other equipment
- Checking the output image

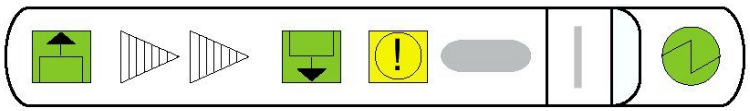
5.1 Checking the connection between the Console and Reader

1. Turn ON the Reader power. If it is already ON, nothing needs to be done here.

2. From the

menu, sequentially choose **Programs > Fuji Film** > **FCR**. The Console application starts in about one minute.

3. Now the LEDs on the Reader panel come on and short beeps are generated, indicating that the Reader software and configuration data are being updated.



Caution

While the Reader *panel LEDs are illuminated, never turn OFF the Reader because its CPU board may get damaged.*

If the software has been reloaded and existing configuration data for the Reader are used, the LEDs may not come on.

4. When the button

appears (language dependent): click this button.

   The configuration data in the Reader FLASH ROM is then updated.

5. After a while the Reader initialization process begins. The Console application window shows a message to indicate that the Reader is being initialized. Note that this message does not appear if the Reader has been started up before the Console application.

© 2001 Philips Medical Systems
ALL RIGHTS RESERVED

6. From the Console user window (Registration) set patient data and exposure menu and then click [**Start Study**] (language dependent). For details on the patient data input procedure, see the Operation Manual of the PCR Compano S. Both the green indicator within the application and the Reader panel 's cassette insertion lamp go on:

7. Set a cassette in the cassette setting unit. When a certain period of time has elapsed after the start of an IP read process, the read image appears on the monitor.

5.2 Checking the Output Image

Run the following checks on the output image:
- Format check
- Irregularity check
- Film annotation character format

1. Have on the hand the IP to be used. Perform a **primary erasure** for this IP.
   For details on the primary erasure procedure, see Operation Manual.

   - Check the output image with all IP sizes that are used in the hospital.
   - Use the Type VI IPs.
   - Make sure that no important image data (e.g., patient images) are exposed on the IPs to be checked.

2. Expose the IP to 1 mR of radiation.
   If the IPs cannot exactly be exposed to 1 mR, use the following IP exposure conditions as a guidance.

© 2001 Philips Medical Systems
ALL RIGHTS RESERVED

Note, however, that the following conditions are used as a guide for standard IP setup.

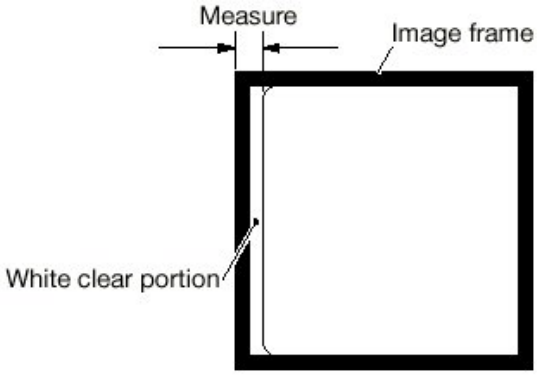
Distance : 1.8 m
Voltage : 80 kV
Current : 50 mA
Time : 0.013 sec

3. Select **Sensitivity** from **Test** as the exposure menu.

4. Set a cassette in the cassette setting unit. The image is read and transferred to the Console.

5. Click at the upper right corner of the Console window. The image printout process starts.

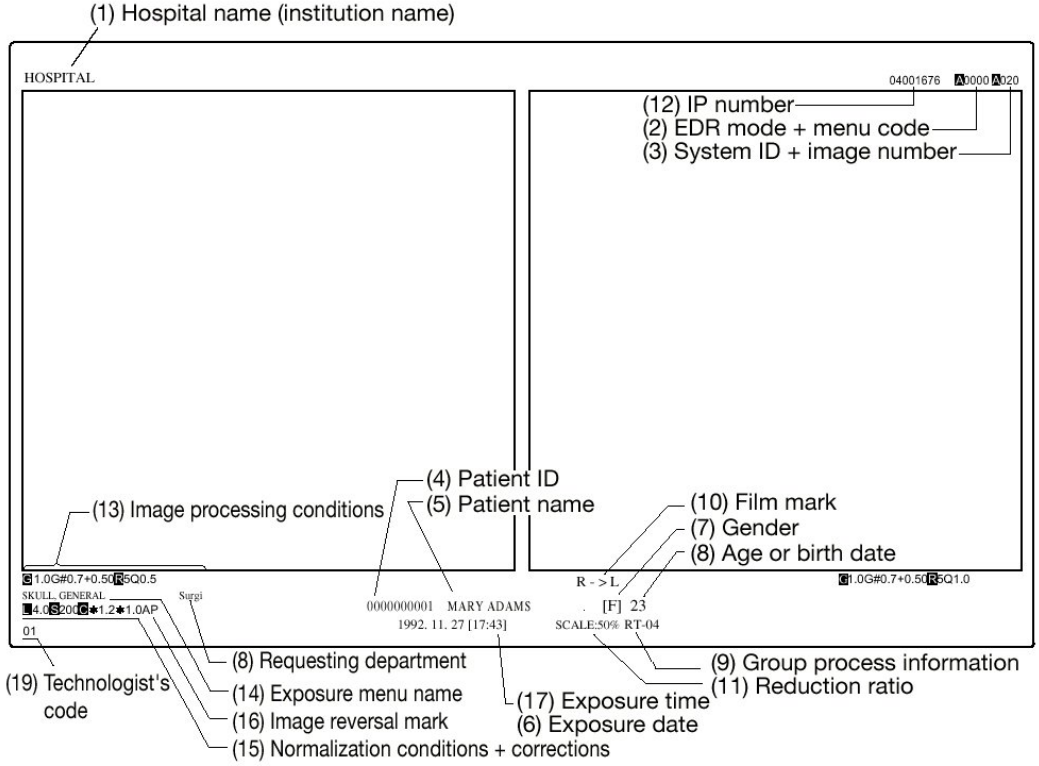
6. Check that the white clear portion of the resulting output film does not exceed 2 mm in width (when a 100% image output is generated).



If any abnormality encounters, see chapter “Troubleshooting ” of the Reader Service Manual.

7. Check that the output film and the image displayed on the monitor are both free from peculiar irregularities. If any abnormality is encountered, see “Troubleshooting ” of the Reader Service Manual.

8. Check that the film annotation character format information entered from the Console is properly printed out onto the film. Also, check for blurred, chipped, or otherwise abnormal character printings.



© 2001 Philips Medical Systems
ALL RIGHTS RESERVED

9. Setting up the system is now done. Please note that the PCR Compano S does not provide a facility for laser printer calibration.

   Adapting the anatomy database, processing parameters, print layouts, etc. can be done via the User Utility of the application software (PHILIPS > User Utility).

© 2001 Philips Medical Systems
ALL RIGHTS RESERVED

6 Using the Service Utility

This section explains the usage of the Service Utility, needed during installation and maintenance.

6.1 Starting the Service Utility

The procedure for starting the Service Utility varies depending on whether

- PC's power is OFF
- PC's power is ON.

When the PC is OFF

1. Turn ON the PC. Windows 2000 starts up. After about one minute, the Console Application starts.

2. When the initial window opens, sequentially click its upper left and upper right corners within 5 seconds.

The **Service Utility Main Menu** opens.

When the PC is ON

1. When the Application is already running: hold down <Shift> and click “Shut Down” on the [**PHILIPS**] menu (hold down <Shift> for a few seconds more). The system returns to the desktop screen.

2. From the

menu, sequentially select **Programs > Fuji Film** > **FCR**. The Application starts in about one minute.

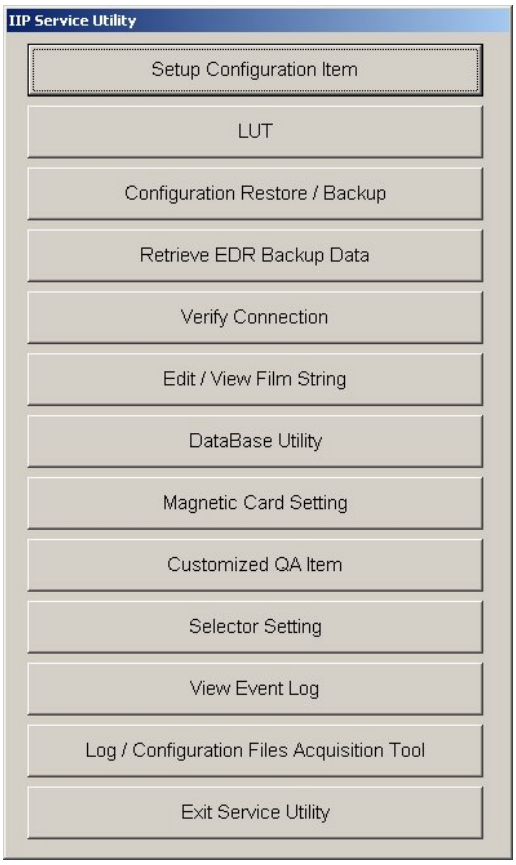
3. When the initial window opens, sequentially click its upper left and upper right corners within 5 seconds as shown above.

The **Service Utility Main Menu** opens.

© 2001 Philips Medical Systems
ALL RIGHTS RESERVED

6.2 Service Utility Main Menu

When the Service Utility starts, the following window (hereinafter referred to as the main menu) opens.



Setup Configuration Item
This menu item is used for Console system information setup, network setup, DICOM setup, automatic distribution code setup and other setup purposes. This is the most frequently used menu item for installation. For details on the Setup Configuration Item window, see **Section Using the Setup Configuration Item Window.**

- System setup
- Console setup
- Reader setup
- QA process setup
- Connection device information table
- Connection destination setup table
- DicomPrint sorting destination setup table
- FINP compression ratio setup
- Distribution code setup

LUT
Monitor Look-Up-Tables (in preparation).

Configuration Restore/Backup
Used to back up or restore setup data. The following files are backed up or restored. Please refer to chapter **Backup and Restore** for procedures.

Retrieve EDR Backup Data
This menu item is used to retrieve an EDR data backup from the Console and save it on floppy. For the EDR data retrieval procedure, see section **Retrieving EDR Data**.

© 2001 Philips Medical Systems
ALL RIGHTS RESERVED

NOTE

The EDR data refers to data halfway through a calculation task while EDR processing is being performed. This data is used to analyze later how EDR processing was actually performed.

Verify Connection

This menu item is used to verify the connection to the Reader or other connected equipment.The Console offers the following connection verification functions:

- Using the PING command to verify the network connection to other connected equipment
- Using connected equipment's AE name (application entity title) to verify the connection to DICOM connected equipment (a DICOM verfication node must be configured at both sides)

Edit/View Film String

This menu item is used to directly edit the file named "FilmStrFmt.env " file which defines the film annotation character format.The tool named **View Film String** can also be used to confirm on-screen film annotation characters.

NOTE

The contents of the FilmStrFmt.env file are written in Unicode. Therefore, use NotePad or other Unicode-compliant text editors for editing purposes.

Database Utility

This menu gives the following options

- Image database initialization
- Clear Output Queue
- Patient database initialization

For details on the initialization and queued data removal procedures, see section **Database Utility**.

Magnetic Card Setting

This menu item is not applicable.

Customized QA item

Selector Setting

View Event Log

Is used to launch the Event Viewer of Windows 2000.The Event Viewer allows to confirm errors that occurred in the OS or Console Application.

Log / configuration aquisition tool

Is used to collect and compress files. See paragraph **Collecting log files** on page 61.

Exit Service Utility

Click here to exit the Service Utility.

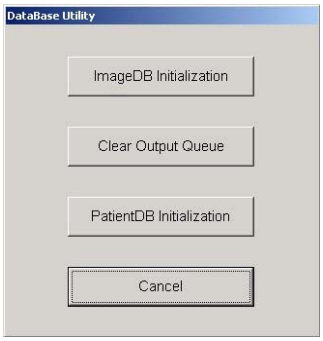
© 2001 Philips Medical Systems
ALL RIGHTS RESERVED

6.3 Database Utility

Click [**Database Utility**] on the main menu. The **Database Utility** window opens.
Click [**Cancel**] to return to the main menu.

Caution

Clicking on any of the buttons in the database menu executes the task without any further notice.



Initialize the image or patient database or clear the output queue as directed below:

6.3.1 Image Database Initialization

This item is used to delete all images in the image database.

Click [**Image DB Initalization**]. The command prompt window opens. After a while it displays the following message:

```
Image database Initialization is in progress...
Normal end.
Press any key to continue...
```

Press any key, the system returns to the **Database Utility** window.

6.3.2 Clear Output Queue

This item is used to delete all images in the output queue (printing, archiving etc.).

Click [**Clear Output Queue**].The command prompt window opens. After a while it displays the following message:

```
Output Queue Initialization is in progress...
Normal end.
Press any key to continue...
```

Press any key, the system returns to the **Database Utility** window.

6.3.3 Patient Database Initialization

This item is used to delete all patient entries in the database.

Click [**Patient DB Initalization**]. The command prompt window opens. After a while it displays the following message:

```
Patient database Initialization is in progress...
Normal end.
Press any key to continue...
```

Press any key, the system returns to the **Database Utility** window.

© 2001 Philips Medical Systems
ALL RIGHTS RESERVED

6.4 Backup and Restoring of the Configuration File

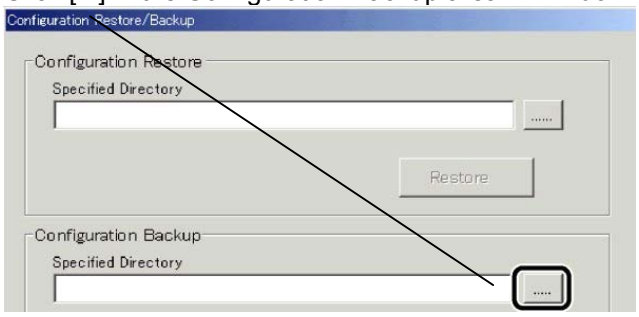
Click **[Configuration Restore/Backup]** on the Service Utility main menu. The Restore/Backup window opens. Backup or restoring of the Console configuration data as directed below.

NOTE

Even when the save process ends, no message appears to indicate it. While the save process is being performed, the mouse cursor is replaced by *. When it changes back to the mouse cursor, it means that the save process is ended. Note, however,* *only appears when the mouse cursor is positioned within the* ***Configuration Restore/Backup*** *window.*

6.4.1 Backup

1. Click [...] in the Configuration Backup area. A window opens, prompting to specify the save destination.



2. Click the downward arrow within the **Drive:** column to select the drive onto which the configuration file is to be saved. The “Directory:” column shows the directory structure of the selected drive.

3. Select a save destination directory and then click [**OK**]. The system returns to the **Configuration Restore/Backup** window.

4. Click [**Backup**]. The system saves the configuration file (takes about one minute).

5. Click [**Cancel**]. The system returns to the main menu.

6.4.2 Restoring

1. Click [...] for the Configuration Restore area. A window opens, prompting to specify the location at which the data to be restored is saved.

2. Click the downward arrow within in the **Drive:** column to select the drive on which the target configuration file exists. The “Directory:” column shows the directory structure of the selected drive.

3. Select the directory in which the data to be restored exists and click [**OK**] . The system returns to the **Configuration Restore/Backup** window.

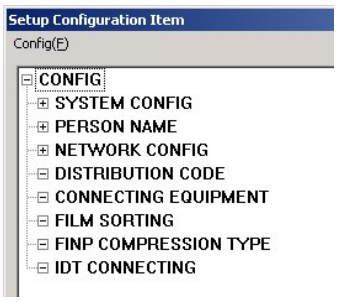
4. Click **[Restore].** The system saves the configuration file.

5. Click [**Cancel**]. The system returns to the main menu.

© 2001 Philips Medical Systems
ALL RIGHTS RESERVED

7 Setup Configuration Item

When clicking [**Setup Configuration Item**] on the Service Utility main menu, the following window opens.

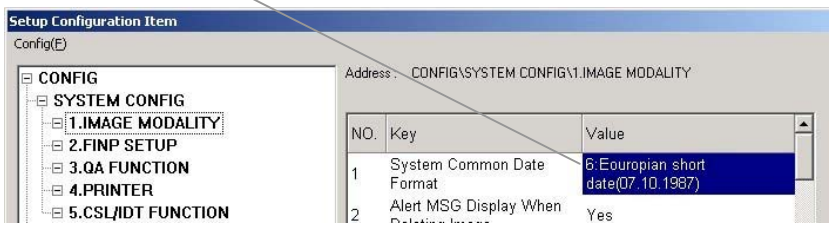


Various items are listed in a tree form (these items are hereinafter referred to as tree items). When clicking these items, windows can be opened to set detailed information for specific tree items.

In the individual tree items, the following items can be set up. Clicking the “+” sign to the left of the tree item displays its contents. A description of the individual tree items can be found below. For details please refer to chapter MU of the **Service Manual CR-IR346CL** on CD-ROM (PCR Compano systems documentation).

When clicking a tree item in the left-hand area of the Setup Configuration Item window, a list of setup items appears in the right-hand area of the window (this list is hereinafter referred to as a configuration list).
This section explains the procedure for editing the setup items in a configuration list.

1. Double-click the **Value** column to the right of a configuration item name.



2. Edit a configuration item.
   When the column you double-clicked changes to a direct input field, click into the field and edit/enter the text. When the column which has been double-clicked changes to a pull-down menu, click the downward button and choose an item from the list.

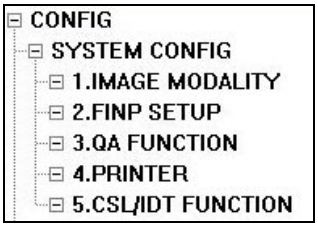
Saving and Exiting
To save the settings: Click **Config(F)**, click **Save**, click [**Yes**].
To exit the config program: Click **Config(F)**, click **Close.**

For further information on the Setup Configuration Item refer to chapter **MU: Maintenance Utility** of the **Service Manual CR-IR346CL** on the CD-ROM (PCR Compano systems documentation)

© 2001 Philips Medical Systems
ALL RIGHTS RESERVED

7.1 SYSTEM CONFIG

This is used to set the basic information about the Console. The displayed items allow to set the Console system information, Printer settings...



7.1.1 IMAGE MODALITY

The table below gives an overview of the possible configuration settings. A " _" denotes a default value, e.g. Yes

No.	Name	Value	Meaning
1	System Common Date Format	0: Japanese date 1: ANSI long date (1987.OCT.07) 2: ANSI short date (1987.10.07) 3: American long date (OCT.07.1987) 4: American short date (10.07.1987) 5: European long date (07.OCT.1987) 6: European short date (07.10.1987)	Used date format. * The date format is applicable in common to entry of the date of birth, monitor display, film output, and all other date-related representations.
2	Alert MSG Display When Deleting Image	**Yes** : After selecting [Delete], the confirmation screen for image deletion will be displayed. Pressing [OK] will delete the specified item. **No**: After selecting [Delete], the confirmation screen for image deletion will not be displayed and the specified item deleted immediately.	Display the confirmation screen for image deletion before deleting an image?
3	Activate Error Recovery Retrial	**Yes**: The system continues retrial processing until the connected devices are recovered. Once recovered, it automatically continues output (including printout) of images accumulated on the output queue. **No**: The system does not output (print) images in “standby” status unless it manually outputs (including printout) such images.	Activate retrial processing after the error occurrence.
4	Institute/Site Name Strings	A maximum of 60 one-byte character. (PCR HOSPITAL)	Medical institution name.
5	IP Size	0: inch, 1: metric	Used IP size format
6	Two independent Mask Sizes	**Yes** :Sets independent RN for the right and left images. (Hipmnrl.prm is used.) **No**: Sets the same RN for the right and left images. (Hipmenu.prm is used.)	Set up frequency processing RN independently for the right and left images on the double-image output.
7	Language Setup	0 : Japanese 1 : English 2 : German 3 : French 4 : Spanish 6 : Swedish 7 : Finnish 8 : Danish 9 : Norwegian 10 : Korean	
8	Institute/Site Name in Two-Byte	-	-
9	UID Issuance after Modifying ID Information	**Yes**: Issues new image UID and SOP Instance UID. **No**: Does not issue new image UID and SOP Instance UID.	Specifying whether or not to issue new image UID and SOP Instance UID when modifying the patient, study, series or image information. * Select “Yes” if you wish to identify images for each modification.
10	UID Issuance after Modifying Normalized Parameter	**Yes**: Issues new image UID and SOP Instance UID. **No**: Does not issue new image UID and SOP Instance UID.	Specifying whether or not to issue new image UID and SOP Instance UID when modifying the conditions for normalization. * Select “Yes” if you wish to identify images for each modification.
11	UID Issuance after Modifying Image Processing Parameter	**Yes**: Issues new image UID and SOP Instance UID. **No**: Does not issue new image UID and SOP Instance UID.	Specifying whether or not to issue new image UID and SOP Instance UID when modifying image processing parameters. * Select “Yes” if you wish to identify images for each modification.
12	UID Issuance Before Sending Processed Data	**Yes**: Issues new image UID and SOP Instance UID. **No**: Does not issue new image UID and SOP Instance UID.	Specifying whether or not to issue new image UID and SOP Instance UID when outputting processed images.

© 2001 Philips Medical Systems
ALL RIGHTS RESERVED

No.	Name	Value	Meaning
13	DICOM Series Generation Logic	**0**: 1 Study - N series and 1 Series - 1 image Issues a number so that it has multiple series for one study and only one image for one series. **1**: 1 Study - N series and 1 Series - M image Issues a number so that it has multiple series for one study and multiple images for one series. **2**: 1 Study - 1 series and 1 Series - N image Issues a number so that it has only one series for one study and multiple images for one series.	Specifying the series generation logic.
14	System Recognition ID	A..Z	The Reader ID.
15	User Utility Password	**Yes**: Password entry is required (the password is 1111.) It is possible to enter the exposure menu parameter batch update menu with password 111111. **No**: No password entry is required.	Specifying if password entry is required when entering the user utility mode.
16	SOP Class UID for PPS When No FILE Attribute Output	1.2.840.10008.5.1.4.1.1.1 1.2.392.200036.9125.1.1.2	Specifying an SOP Class UID that is sent back to PPS when no other connected hosts are set up as the destinations for FILE attribute image output.
17	Protocol Name for PPS	0: Function Code, Sets up a Code (function codes such as RT, TS, ES, etc). 1: Menu Name, Sets up a Menu Name (exposure menu).	Specifying a value used for setup of the “Protocol Name” for PPS.
18	Display Performed Procedure on Worklist Tab	Yes, No	Specifying whether or not to display an already performed study in the CL work list. For a study already performed, specifying NO will hide it even if its related information is sent from MWM.
19	Kind of Output Image	0: L, H, B, S 1: L, B, S 2: L, S 3: L, B 4: L, H L: Low-pressure image H: High-pressure image B: Bone image S: Soft tissue image	Specifying the combination of kinds of images to be transferred to other connected host.
20	Send 3 on 1 Format	0: Yes, transmits Images. 1: No, does not transmit images.	Specifying whether or not to transfer 3on1-format images to an externally connected host.
21	Connection Between Reader and Console	0: 1-1, 1-to-1 connection 1: N-N, N-to-N connection	Specifying whether the 1-to-1 or N-to-N connection is to be established for the CL and RU.
22	Long Type Character Format	**Yes**: Decreases the font sizes to increase the number of displayable characters. **No**: Does not increase the number of displayable characters.	Specifying the font sizes of the ID number and other items for CRT display and film annotation character printing.
23	Tag Mapped on Study Menu at MWM Use	0040, 0100>0040, 0007	DICOM-defined tag numbers to be mapped onto a study menu for MWM use.
24	Perform Mapping to Exposure Menu at MWM Use	**Yes**: Performs mapping. No: Does not perform mapping.	Specifying whether or not to perform mapping for study and exposure menus during MWM use. If “No” is selected, only the patient information will be used to initiate a study process (the exposure menu or other data will not be transmitted).
25	Display Dialog When Failed in Mapping to Menu at MWM Use	**Yes**: Opens a warning window. **No**: Does not open a warning window.	Specifying whether or not to open a warning window when mapping is not successfully performed for a CL study menu or exposure menu during MWM use.
26	Use StudyInstanceUID from RIS	**Yes**: Uses the Study Instance UID sent from the RIS. **No**: Does not use the Study Instance UID sent from the RIS.	Specifying whether or not to use the Study Instance UID that is transmitted from the RIS.
27	StudyInstanceUID Generation Logic	Type1 <company name>.2.1.<study number> Type2 <company name>.2.2<study date><modality>. <study number> Type3 <company name>.2.3.<study date><modality>. <study ID> Type4 <company name>.2.4.<study date>.<study ID>. <requesting department> Type5 <company name>.2.5.<order number> Type6 <company name>.2.6.<study date>.<order number> Type7 <company name>.2.<MAC address>.<TimeStamp>. <machine-dependent ID number>	Study Instance UID number issue type for CL internal number issuance. * If the order number does not exist or the Study Instance UID is longer than specified, the system automatically uses Type7.
28	Dicom Storage Output Connection Number	1..4 (3)	Number of connections simultaneously available for Dicom Storage output generation.
29	Image Number Generation Logic	0:System ID+Serial Number, Attaches a machine shipment control number. 1:Serial Number, Does not attach a machine shipment control number.	Specifying whether or not to attach a machine shipment control number to the beginning of the Image Number.

7.1.2 FINP SETUP

Not applicable. Fuji Image Network Protocol: not used in Philips configuration.

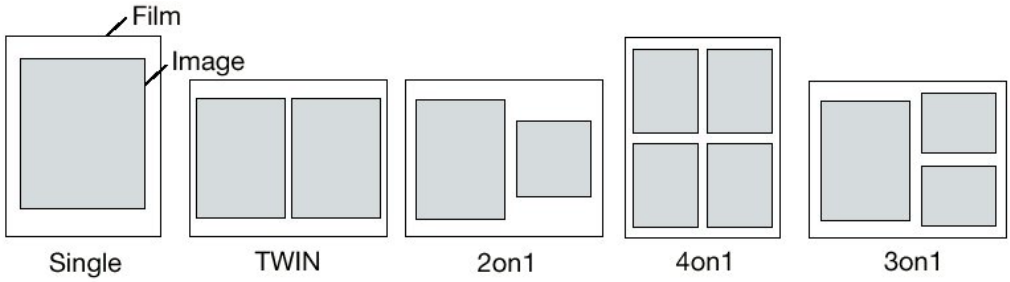
© 2001 Philips Medical Systems
ALL RIGHTS RESERVED

7.1.3 QA FUNCTION

No.	Name	Value	Meaning
1	Enable Image Proc. Parm	**Yes**: Reflects updated image processing parameters upon flag. **No**: Does not reflect updated image processing parameters upon flag.	Update Flag Enabling updated image processing parameter flag.
2	Enable E-mail Button	**Yes**: Used. **No**: Not used.	Specifying whether or not to use the image transfer function via E-mail and the simplified image storage function
3	Use Dialog for Choosing Folder to Save JPEG Image	**No**: Does not open. **Yes**: Opens	Specifying whether or not to open a dialog box for specifying the destination directory when you save an image with the simplified image storage function.

7.1.4 PRINTER

The Console supports the following formats : Single, Twin, 2on1, 4on1 and 3on1 (only for energy subtraction images).



For further information see also chapter **FR: Function Specific Reference** of the **Service Manual CR-IR346CL** on the CD-ROM (PCR Compano systems documentation).

The table below gives an overview of the possible configuration settings. A " _" denotes a default value, e.g. Yes

No.	Name	Value	Meaning
1	Pixel Clock Rate Changeover	-	For directly connected printers only.
2	Enable Magnify Print	Yes/ No	Specifies whether to magnify and print a 35x43cm/14”×17” - 35x35cm/14”×14” image on a 35x43cm film in 100% scale. Exam data are printed within the image.
3	Film Sorting Info. Setup	-	For directly connected printers only.
4	Menu Name Start Position on Film	0..16	When 2, 3 or 6 is selected for “3 Film Sorting Info. Setup” above, six characters of the Menu Name (20 characters) or FilmChar (10 characters) will be used. This item is to specify which portion of the area is selected and used. For example, if 0 is specified, six characters from the top will be used. If 2 is specified, six characters counting from the third character will be used. * The portion of “setup value + six characters” that exceeds the area of each item will be spaces. * When FilmChar is used, an error occurs if ten or more is specified for the number of characters.
5	Unique ID for Film Sorting Condition	0: Space 1: ID#	Specifying the unique ID for film sorting condition.
6	Printer Interface Type	-	For directly connected printers only.
7	Film Size Available	-	For directly connected printers only.
8	Film Base Color	-	For directly connected printers only.
9	Printer Buffer Size	-	For directly connected printers only.
10	Black Margin Setup on Film Edge	0: Margin depend on image ID (default: Transparent). Transparent or black depending on the image information. Transparent unless specified by the image information. 1: Margin depend on image ID (default: Black) Transparent or black depending on the image information. Black unless specified by the image information. 2: Transparent Margin (Fix). Always transparent. 3: Black Margin (Fix). Always black.	Specifying the film margin type.
11	Trimming Range [mm]	0..25	Specifying the amount of trimming in mm.
12	Trimming Range for Mammo	0..25	
13	Print Barcode	Yes/ No	Print the barcode of the IP read by the reader?
14	Print EDR Mode	Yes/ No	Print the setup data in EDR mode on film? * “A” for AUTO, “S” for SEMI, “F” for FIX and “S” for SEMI-X will be printed on film.

© 2001 Philips Medical Systems
ALL RIGHTS RESERVED

No.	Name	Value	Meaning
15	Print Image Process Condition	Yes/ No	Print image processing conditions on film?
16	Print L, S, CS, SS Condition	Yes/ No	Print L, S, CS, SS on film?
17	Print Shot Time	Yes/ No	Print data and time of exposure?
18	Print Set Process	Yes/ No	Print the routine or group information on film?
19	Print Engineer ID	Yes/ No	Print the technician's code information on film?
20	Print Menu Name	Yes/ No	Print exposure menu name on film?
21	Print Compression Rate	Yes/ No	Print image data compression code information on film?
22	Print Energy Subtraction	Yes/ No	Print energy subtraction processing parameter on film?
23	Print Image Frame (3543 film: 14x17, 14x14, 18x43/2025 film: 8x10, 18x24 Single Format)	Yes: Printed with image frame. No: Printed with no image frame.	Specifying whether or not to add image frame when printing a 35x43cm/14"×17", 35x35cm/14"×14" or 18x43cm image on a 35x43cm film in the single format or printing an 18x24cm/8"×10" image on an 8"×10" film in the single format. * Unless the output format is properly positioned, the image format will not be displayed.
24	Print Image Frame (3543 film: 18x43 LR/2on1 Format)	Yes: Printed with image frame. No: Printed with no image frame.	Specifying whether or not to add image frame when printing an 18x43cm image on a 35x43cm film in the LR or 2on1 format. * Unless the output format is properly positioned, the image format will not be displayed.
25	Print Image Frame (3543 film: 14x17, 18x43, 8x10 4on1)	Yes: Printed with image frame. No: Printed with no image frame.	Specifying whether or not to add image frame when printing a 25x43cm/14"×17", 18x43cm or 18x24cm/8"×10" image on a 35x43cm film in the 4on1 format.
26	Print Image Frame (3543 film: Energy-Substraction 3on1)	No: Does not generate outputs. Yes:Generates outputs.	Specifying whether or not to attach an image border to images that are printed on 14"×17" size film in energy-subtraction 3on1 format.
27	Print Image Frame (2636 film: 18x24, 24x30/2025 film:18x24 Single Mammo)	No: Does not generate outputs. Yes:Generates outputs.	Specifying whether or not to attach an image border to 18x24 cm or 24x30 cm size images that are printed on 26x36 cm size film in the single mammography format or to 18x24cm size images that are printed on 8"×10" size film in the single mammography format
28	Print Image Frame (2636 film: 18x24 2on1 100% Format)	No: Does not generate outputs. Yes:Generates outputs.	Specifying whether or not to attach an image border to 18x24 cm size images that are printed on 26x36 cm size film in 2on1 (100%) format.
29	No Print Scale	Details are described in chapter FR 1-2 of the Console Service Manual (FUJI) on the service docs CD-ROM	Print the reading scale? * This setup is effective only when "Printed with image frame" is selected. * This setup can be selected also for each MPM code. A maximum of 8 MPM codes can be specified (a wild card can be used).
30	Representation of Age		Print patient's age or date of birth?
31	Print Reverse Mark	0: Does not print. 1: R-reverse Image not rotated: Does not display. Image rotated: " " is displayed. 2: AP or PA Image not rotated: "AP" is displayed. Image rotated: "PA" is displayed.	Specifying whether or not to output the right-and-left image rotation mark.
32	Print 3543, 2025 Film Character Field (14x17-Single/4on1, 18x43-LR/2on1/4on1, 8x10-4on1, 8x10/ 10x24-Single Format)	0: None, does not output film. 1: Only annotation area 1 is displayed. 2: Only annotation area 2 is displayed. 3: Both are displayed.	Specifying the film annotation character area display format when outputting a 35x43cm or 20x25cm film in the following patterns. 14"×17" • 35x43cm/14"×17" image in the single or 4on1 format • 18x43cm image in the TWIN, 2on1 or 4on1 format • 18x24cm/8"×10" image in the 4on1 format 8"×10" • 18x24cm/8"×10" image in the single format
33	Print Film Char 2/Examination number	0: Film char 2 Film annotation character 2 is output. 1: Examination Number	Printannotation character 2 or the examination number on film.
34	Size Selection of 3543 Film Character (Single Format)	0: Standard 1: Large	Specifying the film annotation character and area sizes when outputting a 35x43cm/14"x17" image on a 14"×17" film in the single format.
35	3543 Film Character Field Position & Rotation (14x17 Image)	Details are described in chapter FR 1-2 of the Console Service Manual (FUJI) on the service docs CD-ROM	Specifying the position and rotation of film annotation character areas 1 and 2 when printing a 35x43cm/14"×17" image in the single or 4on1 format on a 35x43cm film. * This setup is effective for all exposure menus. To specify this setup individually for each MPM code, use the No. 39 setup.
36	3543 Film Character Field Position & Rotation (17x14 Image)	Details are described in chapter FR 1-2 of the Console Service Manual (FUJI) on the service docs CD-ROM	Specifying the position and rotation of film annotation character areas 1 and 2 when printing a 43x35cm/17"×14" image in the single or 4on1 format on a 35x43cm film. * This setup is effective for all exposure menus. To specify this setup individually for each MPM code, use the No. 40 setup.
37	3543 Film Character Field Position & Rotation	Details are described in chapter FR 1-2 of the Console Service Manual (FUJI) on the service docs CD-ROM	Specifying the position and rotation of film annotation character areas 1 and 2 when printing a 18x43cm in the LR, 2on1 or 4on1 format on a 35x43cm film. * This setup is effective for all exposure menus. To specify this setup individually for each MPM code, use the No. 41 setup.
38	3543, 2025 Film Character Field Position & Rotation (3543 Film: 8x10-4on1, 2025 Film: 8x10-Single)	Details are described in chapter FR 1-2 of the Console Service Manual (FUJI) on the service docs CD-ROM	Specifying the position and rotation of film annotation character areas 1 and 2 when printing a 18x24cm/ 8"×10" image in the 4on1 format on a 35x43cm film or printing an 18x24cm/8"×10 image in the single format on a 20x25cm film. * This setup is effective for all exposure menus. To specify this setup individually for each MPM code, use the No. 42 setup.
39	2025 (Landscape) Film Character Field Position & Rotation (8x10, 18x24-Single)	Details are described in chapter FR 1-2 of the Console Service Manual (FUJI) on the service docs CD-ROM	Specifying the position and rotation of film annotation character areas 1 and 2 when printing a 90-rotated 8"×10"/18x24cm image on an 18x24cm film in the single format.

© 2001 Philips Medical Systems
ALL RIGHTS RESERVED

No.	Name	Value	Meaning
40	Film Character Field position & rotation (User Definition Rules 1)	Details are described in chapter FR 1-2 of the Console Service Manual (FUJI) on the service docs CD-ROM	Specifying the position and rotation of film annotation character areas 1 and 2 when printing a 35x43cm/14"×17" image in the single or 4on1 format on a 35x43cm film. * Setup is necessary for each MPM code. (A maximum of 8 MPM codes can be selected. A wild card cannot be used.) * This setup data prevails over that in No.35
41	Film Character Field position & rotation (User Definition Rules 2)	Details are described in chapter FR 1-2 of the Console Service Manual (FUJI) on the service docs CD-ROM	Specifying the position and rotation of film annotation character areas 1 and 2 when printing a 43x35cm/17"×14" image in the single or 4on1 format on a 35x43cm film. * Setup is necessary for each MPM code. (A maximum of 8 MPM codes can be selected. A wild card cannot be used.) * This setup data prevails over that in No.36
42	Film Character Field position & rotation (User Definition Rules 3)	Details are described in chapter FR 1-2 of the Console Service Manual (FUJI) on the service docs CD-ROM	Specifying the position and rotation of film annotation character areas 1 and 2 when printing an 18x43cm image in the LR, 2on1 or 4on1 format on a 35x43cm film. * Setup is necessary for each MPM code. (A maximum of 8 MPM codes can be selected. A wild card cannot be used.) * This setup data prevails over that in No.37
43	Film Character Field position & rotation (User Definition Rules 4)	Details are described in chapter FR 1-2 of the Console Service Manual (FUJI) on the service docs CD-ROM	Specifying the position and rotation of film annotation character areas 1 and 2 when printing an 18x24cm/8"×10" image in the 4on1 format on a 35x43cm film * Setup is necessary for each MPM code. (A maximum of 8 MPM codes can be selected. A wild card cannot be used.) * This setup data prevails over that in No. 38.
44	Film Character Field position & rotation (User Definition Rules5)	Details are described in chapter FR 1-2 of the Console Service Manual (FUJI) on the service docs CD-ROM	Specifying the position and rotation of film annotation character areas 1 and 2 when an image overlaps the film annotation character area.
45	Film Character Field position & rotation	Details are described in chapter FR 1-2 of the Console Service Manual (FUJI) on the service docs CD-ROM	Specifying the position and rotation of film annotation character areas 1 and 2 when an image overlaps the film annotation character area.
46	Image Area Move to the Top of 3543 Film	Yes: Moves to the top of the film. No: Does not move.	Specifying the image output position when printing a 15x30cm, 35x35cm/14"×14" or 43x43cm/17"×17" image in the single format on a 35x43cm film.
47	Patient's Name Length on Film	0 - 64 (20)	Specifying the maximum patient name length when printing it on film. * If a number larger than 20, the default, is specified, the film annotation character area cannot possibly hold other information items.
48	Patient's Name Length		For Japan only
49	Patient's Name Justify on Film	0: Left : Left-padding. 1: Right : Right-padding.	Specifying whether to select right- or left-padding for printing patient name on film.

7.1.5 CSL/IDT FUNCTION

The table below gives an overview of the possible configuration settings. A " _" denotes a default value, e.g. Yes

No.	Name	Value	Meaning
1	AutoMenuSelect	**No**: From exposure list menus of unread images, manually selects exposure menus of the image to be read the next. **Yes**: When an image is received from the RU, automatically moves onto the next exposure menu item (at the bottom on the screen).	Specifying whether or not to automatically move onto the next exposure menu item (at the bottom on the screen) when multiple exposure menus are registered.
2	Default Expansion Menu Code for Unregistered Image	A maximum of 16 characters. (FCR0909-0000)	Setting the extension menu code of the exposure menu to be used as the default when it is unregistered. * This item can also be set up using the User Utility function. The item set up the last will be valid.
3	Enable Distribution Code	No: The distribution code is not used. Yes: The distribution code is used.	Specifying if the distribution code is used when changing exposure menu parameters.
4	Enable Film String	No: The film mark is not used. Yes: The film mark is used.	Specifying if the film annotation characters are used when changing exposure menu parameters.
5	Enable Function Setup	No: The function setup is not used. Yes: The function setup is used.	Specifying if the function setup is used when changing exposure menu parameters.
6	Enable Pantomography Processing	No: The pantomography is not used. Yes: The pantomography is used to isolate an image if it is in 24"x30cm (10"×12") size and a pantomography menu (MPMcode 20x4) is used.	Specifying if the pantomography (processing used to isolate a 15"x30cm image from a 24x30cm (10"×12") image) is used.
7	Enable Performance Data (RIS)	No: The performance data is disabled. Yes: The performance data is enabled	Specifying whether the result information (film size and split exposure count) can be defined from the Console menu parameter edit dialog box at the time of ordering from the RIS.
8	Enable Automatic Selector Switching	No:Not used. Yes: Used.	Specifying if the automatic selector changeover function is used.
9	Enable Requesting Dept. Name Field	No: The requesting department name field is not displayed. Yes: The requesting department name field is displayed.	Specifying if the requesting department name field is displayed on the patient information entry screen.

© 2001 Philips Medical Systems
ALL RIGHTS RESERVED

No.	Name	Value	Meaning
10	Enable Technologist Name Field	No: The technologist name field is not displayed. Yes : The technologist name field is displayed.	Specifying if the technologist name field is displayed on the patient information entry screen.
11	Image Rotation/Reversal Range	0: L-R reversal 1: T-B reversal 2: L-R,T-B reversal 3: L-R reversal / 90-deg,Rotation 4: L-R,T-B reversal / 90-deg,Rotation Selects a combination of L-R, T-B, 90-deg or Rotation from among 0 to 4. L-R: Right and left rotation, T-B: Top and bottom rotation, 90°, Rotation: 90° reversal	Specifying the range available for selection of image rotation and reversal when changing exposure menu parameters.
12	EDR Mode Setup	0: AUTO/SEMI/FIX 1: AUTO/SEMI/FIX/SEMI-X Selects a combination of AUTO, SEMI, FIX or SEMI-X from 0 and 1. AUTO: Automatically calculates both the S and L values based on the image. SEMI: The L value is fixed. Automatically calculates the S value as per determined process. FIX: The L value is fixed. The S value is the default or manually entered. SEMI-X: The L value is fixed. Automatically calculates the S value as per determined process. Manually enters area for calculation and output density.	Specifying the range available for selection of EDR mode when changing exposure menu parameters.
13	Image Data Filing Mode Setup	0:OFF/ON 1:OFF/ON/ON* Selects a combination of OFF, ON or ON* from 0 and 1. OFF: Not to filing to the OD device. ON : Filing to the OD device. ON* : Filing of an HQ image to the OD device after converting it to a normal density image.	Specifying the range available for selection of filing mode when changing exposure menu parameters.
14	Function Setup	RT,TS,ES,WS,PS,TM,TX,EX,WX (RT,TS,ES,WS,PS,TM) RT: Routine processing (routine exposure) TS: Temporal subtraction processing ES: Energy subtraction processing WS: Whole spine processing PS: IVP processing TM: Tomographic processing TX: Batch temporal subtraction processing EX: Batch energy subtraction processing WX: Batch whole spine processing	Specifying functions that can be selected when changing exposure menu parameters. * Enumerate functions demarcating them using commas in between.
15	Examination No.	Length 1–16(10)	Setting the examination No. length (1 to 16). * Set 6 or larger when 1 is set for “29. Study Number Issuance Logic Setup” and 14 or larger when 2 is set for it. * Be sure to enter one-byte characters on the keyboard. * This function also specifies the number of characters printed on film.
16	Examination No. Padding Method	0: Pad with space to the head(1234567) Right-padded with spaces to the head. 1: Pad with zero to the head (0001234567) Right-padded with zeros to the head. 2: Pad with space to the tail(1234567) Left-padded with spaces to the tail. 3: Pad with zero to the tail (1234567000) Left-padded with zeros to the tail.	Specifying the examination No. padding method. * This function also specifies right/left justification of character strings printed on film.
17	Patient ID Length	1–64 (40)	Setting the patient ID length.
18	Patient ID Padding Method	0: Pad with space to the head (1234567) Right-padded with spaces to the head. 1: Pad with zero to the head (0001234567) Right-padded with zeros to the head. 2: Pad with space to the tail (1234567) Left-padded with spaces to the tail. 3: Pad with zero to the tail (1234567000) Left-padded with zeros to the tail.	Specifying the patient ID padding method. * This function also specifies right/left justification of character strings printed on film.
19	Reception No.	Length 1–16 (5)	Setting the reception No. length. * Use this setting for Type B ID Online connection. * Be sure to enter one-byte characters on the keyboard.
20	Reception No.Padding Method	0: Pad with space to the head(1234567) Right-padded with spaces to the head. 1: Pad with zero to the head (0001234567) Right-padded with zeros to the head. 2: Pad with space to the tail(1234567) Left-padded with spaces to the tail. 3: Pad with zero to the tail (1234567000) Left-padded with zeros to the tail.	Specifying the reception No. padding method. * Use this setting for Type B ID Online connection.

© 2001 Philips Medical Systems
ALL RIGHTS RESERVED

No.	Name	Value	Meaning
21	Exposure List Erasure Setup	No:Does not erase. Yes: Erases.	Specifying whether or not to erase the preset exposure list when entering new patient information on the examination and examination reservation screens. * This item can also be set up using the User Utility function. The item set up the last will be valid
22	Requesting Dept. Name Field Setup	0: Code, Displays the requesting department code. 1: Name, displays the requesting department name in alphanumerics. 2: Name, in kanji.	Setting the content of the menu to be displayed in the requesting department name field. * Be sure to enter one-byte characters on the keyboard. * This function also specifies the number of characters printed on film.
23	Technician's Name Field Setup	0: Code, displays the technician's code. 1: Name,displays the technician's name in alphanumerics. 2: Name, in kanji.	Setting the content of the menu to be displayed in the technician's name field.
24	Min.Set Number	1–ZZ (1)	Setting the minimum value for the function processing setup No. Set Number" below.
25	Max.Set Number	1–ZZ (9Z)	Setting the maximum value for the function processing setup No. Number" above. * Be sure to enter one-byte characters on the keyboard. * Enter a value larger than that specified in "24. Min. Set * Enter a value smaller than that specified in "25. Max.
26	MCR Customized Card	not applicable	
27	MCR Card Type	not applicable	
28	MCR Card Format	not applicable	
29	Study Number Issuance Logic Setup	0: OFF 1: <System Id+Auto Increment> 2: <Date+System Id+Auto Increment> System ID: Converts A to 1, ... and Z to 26. Date: Converts in the form of yyyymmdd (year, month, day). Auto Increment: Starts with the initial value counted to be 0001 and the count is reset to the initial value if it extends over the two consecutive years	Specifying the logic available for automatic study number (0021, 2F20) issuance mode. * Verify the setting made in "15. Examination No. length." Make sure that 6 or larger is set when "1" has been selected and 14 or larger, when "2" has been selected. * (0021, 2F20) are the study number tag.
30	Technician's Code Length	1–2 (2)	Setting the technician's code length.
31 - 53	For Fuji only		
54	Enable Patient Info. DB Function	No: Does not use the patient database function. Yes: Uses the patient database function.	Specifying whether or not to use the patient database function.
55	Max. Number of Patient Info.	5000	Maximum number of patients that can be recorded to the patient database
56	Patient's Name Format	0: one-byte code 1: two-byte code 2: both	Patient name format available for general practitioner interface.
57	Enable Customize Function of Study List and Patient Info. ListDB Function	No/ Yes	Selecting "No" disables the study list customization and patient database list customization functions
58	IP Info. Request Timeout (Reader:CSL=N:N)	1 to 60 (basically not changed.) (60)	Timeout value that prevails in the CL when the RU conducts an IP information search while the RU-CL N:N connections established
59	Replace ALL IP Size When Receive Size Change Request from Builtin	No: Does not change. Yes: Changes.	Specifying whether the CL applies a specified image size change to unexposed menu items in the study list upon receipt of an exposure image size change notification from the built-in type machine in situations where the RIS is connected.

© 2001 Philips Medical Systems
ALL RIGHTS RESERVED

7.2 PERSON NAME

This section explains the procedure for changing the name element sequence and delimiter.
At some institutions, a patient name is displayed on the monitor by changing the sequence of its elements. For example, the name “John Doe” may be displayed as “Doe Joe” (with the given name and family name positions interchanged).
The DICOM protocol stipulates only one sequence of name elements. Therefore it is necessary to define the relationship between the name element sequence stipulated by standards (or conditions) other than DICOM and the name element sequence stipulated by DICOM.

Important: Do not change the settings for “DICOM_MWM”, “DICOM_IN”, or “DICOM_OUT”.

7.3 NETWORK CONFIG

This tree item is used to set the Console/connected equipment network information and perform DICOM setup.

7.4 DISTRIBUTION CODE

This tree item is used to perform automatic distribution code setup.

7.5 CONNECTING EQUIPMENT

This tree item is used to define the connected equipment that is connected to the Console.

7.6 FILM SORTING

This tree item is used to define the film sorting conditions for DICOM prints.

7.7 FINP COMPRESSION TYPE

Not applicable.

7.8 IDT CONNECTING

See page MU-28 of the **Service Manual CR-IR346CL** on the CD-ROM (PCR Compano systems documentation).

© 2001 Philips Medical Systems
ALL RIGHTS RESERVED

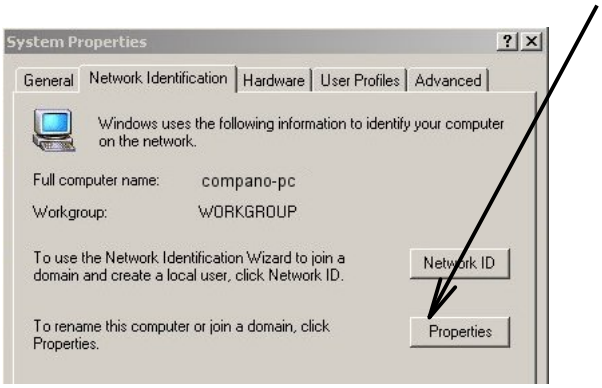
8 Changing the Host Name of the PC

1. Before the host name of the computer can be changed the MSDE database must be uninstalled. Please refer to chapter Un-Installing Software on page 56

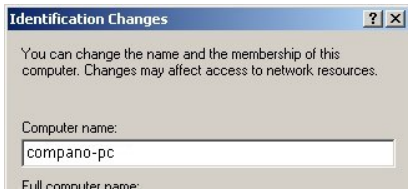
2. Right-click

and select **[Properties]**.

3. Select **Network Identification** tab and click [**Properties**].



4. Change the **Computer Name** : this is the host name.


Identification Changes
You can change the name and the membership of this computer. Changes may affect access to network resources.
Computer name:
compano-pc

5. Click [**OK**].

6. The **You must reboot this computer** message is displayed: click [**OK**].

7. Click [**OK**] to close the **System Properties** window.

8. Now the system ask to restart the computer. Click [**Yes**].

9. After rebooting Windows, the system trys to start the application. This fails because the database must be re-loaded: Confirm all error messages.

10. Insert the CD **Console Compano S 1.1 L1** into the CD-ROM drive. Within a few seconds the **PCR Compano S Setup Tool** is started:

```
PCR Compano S Setup Tool
Main Menu
      0)Quit
      1)Install MSDE and SQL7SP2
      2)Install Application (IIP)
      3)Install Parameter Files (Anatomy Database, Processing Parameter, etc.)
      4)Install Built_in Console
      5)Install FRIS Modules
      ---
      9)Install Application key
```


© 2001 Philips Medical Systems
ALL RIGHTS RESERVED

11. Press <1> and <Enter>.

```
Installing MSDE, please wait...
MSDE installation completed.

Installing SQL7SP2, please wait...
SQL7SP2 installation completed.
```

The installation of MSDE and SQL database is started and takes about 10 minutes. When done, the main menu appears again.

12. Now we need to restart the system to activate the database:

    Press <0> and <Enter> to leave the menu.

    Click

, click

, select

and click [**OK**].

13. When Windows is up and running again, make sure that the following icon is displayed in the taskbar, indicating that the database is up and running:

14. From the

menu, sequentially select [**Programs**], [**Accessories**] and [**Command Prompt**].

15. Enter the following command: **C:\Program Files\FujiFilm\IIP\Temp\AttachAll.bat** and press <**Enter**>.

16. When done, press any key to continue, as prompted.
    The image database is completely rebuilt.

© 2001 Philips Medical Systems
ALL RIGHTS RESERVED

9 Changing the IP Addresses for Console and Reader

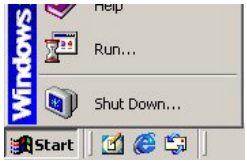
Change the IP addresses for the Console and Reader as summarized below:

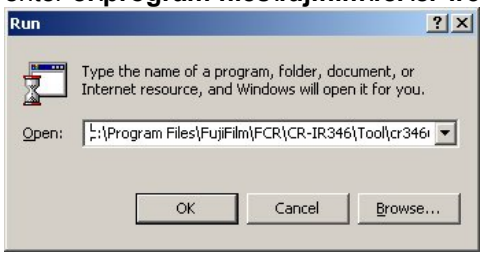
- Changing the Reader configuration file (on the hard disk of the PC), 9.1
  Perform this step if the address for the Reader and/or the PC needs to be changed
- Changing the IP address of the PC, 9.2
  Perform additionally this step if the address for the PC needs to be changed
- Verifying the connection after IP address changes

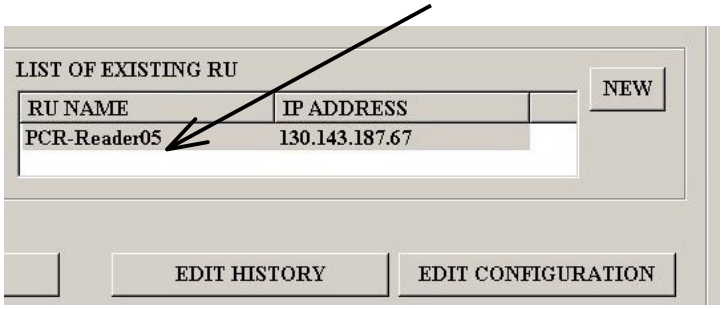
Please note that the procedures musted be followed in the described order, otherwise the possibility exists that the Reader cannot be reached anymore via the network since IP addresses and net masks may possibily not match. In that case there is still the possibility to reach the Reader via serial connection. See chapter **Servicing the Reader via serial port** in the Release Bulletin for the Reader.

9.1 Changing the Reader configuration file

1. Turn ON the Reader power.
2. Start the Reader M-Utility:
   Click

   click **Run...**
   

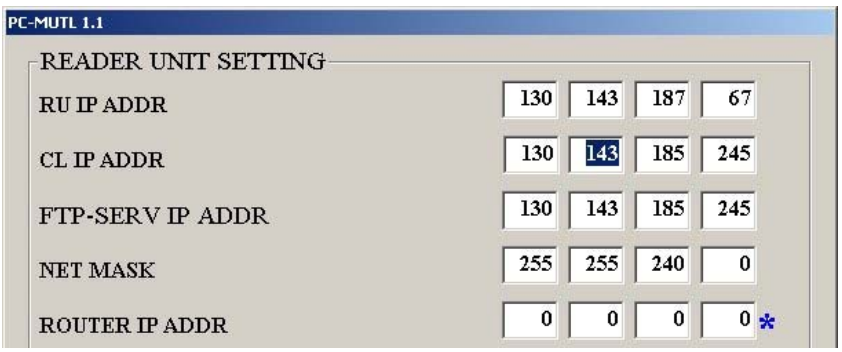
   enter **c:\program files\fujifilm\fcr\cr-ir346\tool\cr346uty.exe** and click [**OK**].
   

3. Click [**Start**].
4. From the **LIST OF EXISTING RU** click the **host name** of the Reader to be set.
   

5. Click [**EDIT CONFIGURATION**]. The **READER UNIT SETTING** window opens.

© 2001 Philips Medical Systems
ALL RIGHTS RESERVED

6. Enter the (new) IP address of the Reader for **RU IP ADDR**
   Enter the (new) IP address of the PC for **CL IP ADDR** and **FTP-SERV IP ADDR**
   Enter the (new) net mask.
   Enter an (new) address for router / gateway.


PC-MUTL 1.1
READER UNIT SETTING
RU IP ADDR 130 143 187 67
CL IP ADDR 130 143 185 245
FTP-SERV IP ADDR 130 143 185 245
NET MASK 255 255 240 0
ROUTER IP ADDR 0 0 0 0

7. Click [**SET**]. The configuration is saved to the hard disk of the PC and the system returns to the main menu.

   Note: The configuration file in the FlashROM of the Reader is not updated yet. The Reader is still working with the old configuration until the next startup of the application software.

8. Click [**X**]. The system returns to the desktop screen.

9. Double-click the **PCR Compano S** icon on the desktop. The Console application starts up in about one minute.

10. When all the LEDs on the Reader panel come on (three successive short beeps are generated),
    the button

    appears (language dependent). Click this button.

    Caution

    While the Reader panel LEDs are illuminated, never turn OFF the Reader because its CPU board may get damaged.

    The configuration data in the Reader FLASH ROM is then updated.

11. Click [**OK**].

12. Click [**PHILIPS**].

13. Hold down <**Shift**> and click [**SHUTDOWN**] (hold <**Shift**> for a few seconds longer).
    The system returns to the desktop screen.

9.2 Changing the IP address of the Console PC

1. Right-click

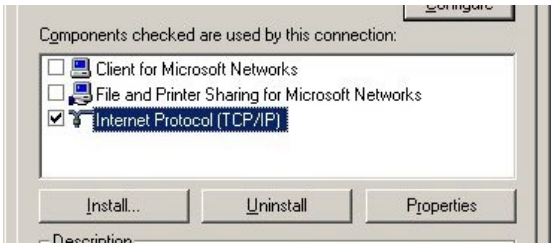
   and select **[Properties]**.

2. Right-click

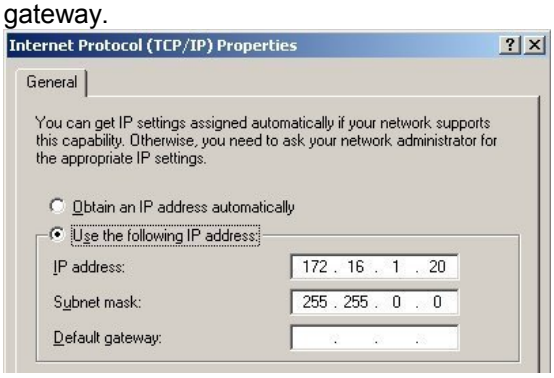
   and select **[Properties]**.

© 2001 Philips Medical Systems
ALL RIGHTS RESERVED

3. Check **Internet Protocol (TCP/IP)**, click [**Properties**].



4. Select **Use the following IP address** and enter values for IP address, net mask and (if applicable) gateway.


Internet Protocol (TCP/IP) Properties
General
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address: 172 . 16 . 1 . 20
Subnet mask: 255 . 255 . 0 . 0
Default gateway:

5. Click [**OK**] to make changes effective.
   Depending on the selected configuration, closing the window may take some seconds. It is also possible that the system asks for a restart.

6. Click [**X**] to close the window.

Restart the Compano S application and verify that the system is working properly.

© 2001 Philips Medical Systems
ALL RIGHTS RESERVED

10 Un-Installing Software

This chapter describes the procedures for uninstalling the following software packages:

- Console Application
- MSDE (SQL database)
- Reader Application
- Reader M-UTILITY
- Option keys
- Built_inConsole software
- FRIS Modules

10.1 Console Application

1. Double-click

, double-click

, double-click

.

2. Select **IIP application**.

3. Click [**Remove**]. A confirmation window opens.

4. Click [**Yes**]. The uninstallation window opens and un-installation ends in several seconds.

5. Close the **Add/Remove Programs** window and **Control Panel**.

10.2 MSDE (SQL database)

1. Right-click in the task bar the icon of the database server:
The “SQL Server Service Manager” window opens.

2. Click [**Exit**].

3. Double-click

, double-click

, double-click

.

4. Select **MSDE** and click [**Change/Remove**]. The **Confirm File Deletion** window opens.

5. Click [**Yes**]. The installation shield starts running to initiate an MSDE uninstallation.

6. After a while the **Remove Shared File** window opens.

7. Click [**Yes to all**]. A confirmation window opens.

8. Click [**Yes**]. Uninstallation ends in 10 seconds.

9. Click [**OK**]. The **Add/Remove Programs** window is displayed again.

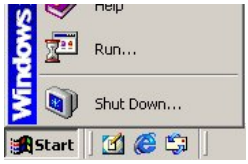
10. Close the **Add/Remove Programs** window and **Control Panel**.

© 2001 Philips Medical Systems
ALL RIGHTS RESERVED

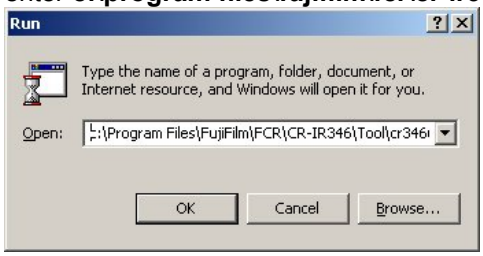
10.3 Reader Application

1. Start the Reader M-Utility:
   Click Start

   click **Run...**



   enter **c:\program files\fujifilm\fcr\cr-ir346\tool\cr346uty.exe** and click [**OK**].



   The Reader M-Utility main menu opens.

2. Click [**UNINSTALL**]. All the Reader applications displayed in the **LIST OF EXISTING RU** area are uninstalled.

3. A **Completed** window appears.

4. Click [**OK**]. The main menu is displayed again.

10.4 Reader M-Utility

Use the Reader Application CD to uninstall the Reader M-Utility. Do not uninstall the Reader M-Utility from **Add/Remove Programs** in Control Panel because this results in an improper uninstallation.

1. Insert the Reader-CD into the CD-ROM drive. After a while the **CR-IR346RU MAINTENANCE TOOLS** window opens.

2. Click [**UNINSTALL**]. After a while, the **FCR TOOL Setup** window opens.

3. Click [**Next**].
   The **FCR TOOL Setup/Remove the Program** window opens.

4. Click [**Remove**]. The **FCR TOOL Setup/Completing the FCR TOOL Setup Wizard** window opens. Uninstallation is now completed.

5. Click [**Finish**]. The Maintenance Tool window is displayed again.

6. Click [**EXIT**]. Remove the CD from the drive.

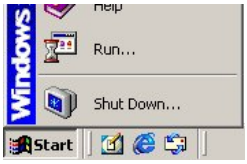
© 2001 Philips Medical Systems
ALL RIGHTS RESERVED

10.5 Option keys

The option key CD-ROM is required for uninstalling an option key.

1. Insert the CD-ROM for the option key to be uninstalled into the CD-ROM drive.
2. The installation window opens. Click [**Cancel**] to stop installation.
3. Click

   Click **Run...**



   Enter the executable file name (see list below) of the option to be uninstalled, plus the suffix **"/u**" (for 'uninstall') and click [**OK**].

   Example: d:\optiondcmprint.exe /u

Option	File name
DICOM Storage	OptionDcmStandardCR.exe OptionDcmPrivateCR.exe
DICOM Print	OptionDcmPrint.exe
DICOM MWM	OptionMWM.exe

4. A window opens to indicate that uninstallation is completed.
5. Click [**OK**].

10.6 Built_inConsole

After the Built_inConsole software is uninstalled, be sure to reinstall the console software. The application does not start up when the Built_inConsole software is uninstalled.

1. Double-click

, double-click

, double-click

.
2. Select **Built_inConsole** and click [**Remove**]. The **Application Removal** window opens.
3. Click [**Yes**]. The install shield starts running and begins to uninstall the MSDE. After a while the **Shared Component** window opens.
4. Click [**Remove all**]. The uninstallation process ends and the confirmation window opens.
5. Click [**OK**]. The **Add/Remove Programs** window is displayed again.
6. Close the **Add/Remove Programs** window and then the **Control Panel.**

© 2001 Philips Medical Systems
ALL RIGHTS RESERVED

10.7 FRIS modules

1. Double-click

, double-click

, double-click

.

2. Select **FRIS modules** and click [**Remove**]. The **Application Removal** window opens.

3. Click [**Yes**]. The install shield starts running and begins to uninstall the MSDE. After a while the **Shared Component** window opens.

4. Click [**Yes to all**]. The uninstallation process ends and the confirmation window opens.

5. Click [**OK**]. The **Add/Remove Programs** window is displayed again.

6. Close the **Add/Remove Programs** window and the **Control Panel.**

© 2001 Philips Medical Systems
ALL RIGHTS RESERVED

11 Error logging

Error logs of the system can be found in the directory **C:\Program Files\FujiFilm\IIP\Log**
These are the current log files. Older logs are located in sub-directories named **A** .. **Z.**

The log files are named **DICOMMWLSCU.log** (for logging DICOM MWM communication)
DicomPrint.log (for logging DICOM print communication)
IipInput.log

11.1 Extending the log level

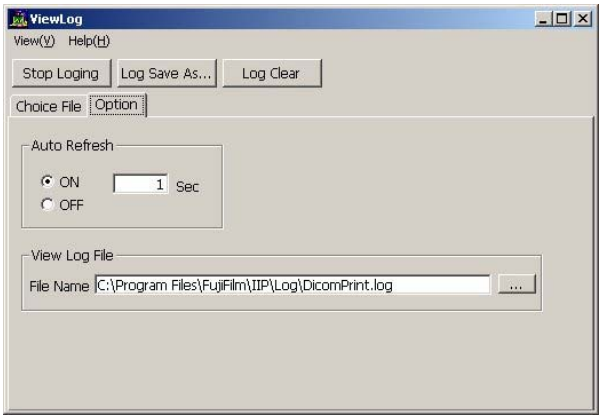
Extending the logging to log more events into the logfiles, for instance when setting up a new DICOM node, can be done as follows.

1. Open a command prompt: **Start > Accessories > Command Prompt**.
2. Enter ***cd c:\program files\fujifilm\IIP\system***
3. Enter ***DicomLogMode 2***.
4. The system responses with **????.** Click [**OK**].

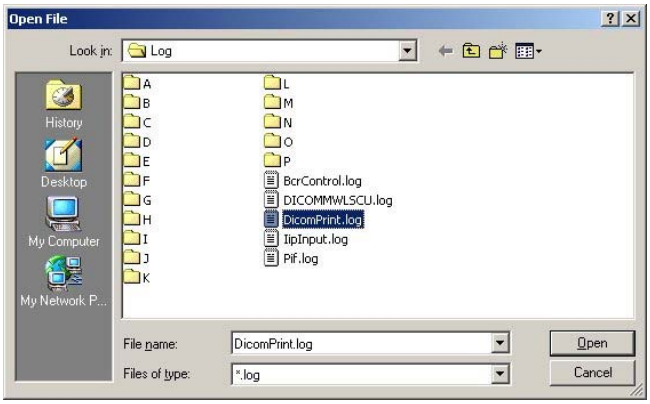
When testing is done, set the logging to normal: ***DicomLogMode 1.***

11.2 Viewing and monitoring log files

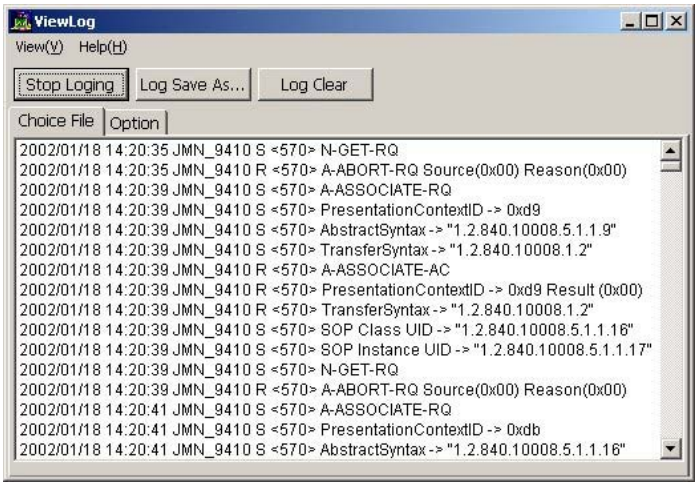
The log files are simple text files and can be view with any editor. For monitoring logs use the program **ViewLog.exe** which is located in **C:\Program Files\FujiFilm\IIP\System.**



Click [...] in the field **View Log File** for selecting a file.

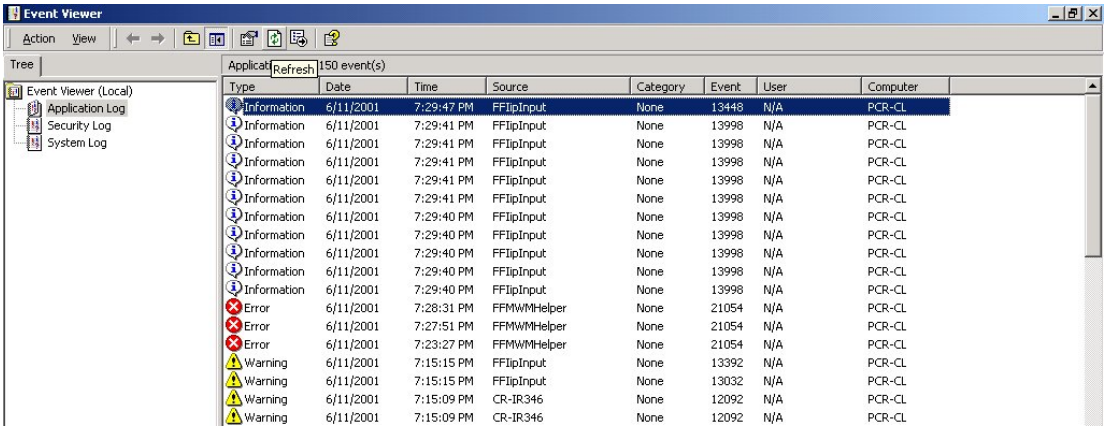


© 2001 Philips Medical Systems
ALL RIGHTS RESERVED



11.3 Event Viewer

Error messages are handled by the Event Viewer of Windows 2000. The Event Viewer can be launched from the Service Utility Main Menu (refer to chapter **Service Utility Main Menu** on page 38) or via the Control Panel of Windows 2000: **Control Panel > Administrative Tools > EventViewer.**


Event Viewer
Action View
Tree
Refresh
150 event(s)
Event Viewer (Local)
Application Log
Security Log
System Log
Type Date Time Source Category Event User Computer
Information 6/11/2001 7:29:47 PM FFIpInput None 13448 N/A PCR-CL
Information 6/11/2001 7:29:41 PM FFIpInput None 13998 N/A PCR-CL
Information 6/11/2001 7:29:41 PM FFIpInput None 13998 N/A PCR-CL
Information 6/11/2001 7:29:41 PM FFIpInput None 13998 N/A PCR-CL
Information 6/11/2001 7:29:41 PM FFIpInput None 13998 N/A PCR-CL
Information 6/11/2001 7:29:41 PM FFIpInput None 13998 N/A PCR-CL
Information 6/11/2001 7:29:40 PM FFIpInput None 13998 N/A PCR-CL
Information 6/11/2001 7:29:40 PM FFIpInput None 13998 N/A PCR-CL
Information 6/11/2001 7:29:40 PM FFIpInput None 13998 N/A PCR-CL
Information 6/11/2001 7:29:40 PM FFIpInput None 13998 N/A PCR-CL
Information 6/11/2001 7:29:40 PM FFIpInput None 13998 N/A PCR-CL
Error 6/11/2001 7:28:31 PM FFMWMHelper None 21054 N/A PCR-CL
Error 6/11/2001 7:27:51 PM FFMWMHelper None 21054 N/A PCR-CL
Error 6/11/2001 7:23:27 PM FFMWMHelper None 21054 N/A PCR-CL
Warning 6/11/2001 7:15:15 PM FFIpInput None 13392 N/A PCR-CL
Warning 6/11/2001 7:15:15 PM FFIpInput None 13032 N/A PCR-CL
Warning 6/11/2001 7:15:09 PM CR-IR346 None 12092 N/A PCR-CL
Warning 6/11/2001 7:15:09 PM CR-IR346 None 12092 N/A PCR-CL

The Event Viewer logs events and error messages for the application, security and the Windows system itself. The messages are classified as error, info or warning.

11.4 Collecting log files

To collect and compress log files go to the Service Utility Main Menu (see paragraph **Service Utility Main Menu** on page 38).

1. Click [**Log / configuration aquisition tool**] from the menu.

2. A command prompt window is opened and the **Log/Configuration Files Acquisition Tool** is started.

```
*** Log/Configuration Files Acquisition Tool ***
  0)Quit
  1)Change location to write acquisition data(A:)
  2)Configuration files(Config,EdrParam,Param)
  3)Log files(Log)
  4)Image INF files and Image DB
Select Number >
```


© 2001 Philips Medical Systems
ALL RIGHTS RESERVED

1) changes the location for the destination directory for putting the collected and compressed files to. (c:\Program files\FujiFilm\IIP)
2) collects all configuration files and packs it to the file **config.cab**.
3) collects all log files and packs it to the file **log.cab.**
4) collects all patient INF files and packs it to the file **image.cab.**

CAB files can be viewed and extracted with the Explorer of Windows 2000 or with any newer version of WinZIP etc.

© 2001 Philips Medical Systems
ALL RIGHTS RESERVED

12 Communication with Philips Medical Systems

Problem reporting

Problems which may be related to an error in the system should be reported via e-mail, fax, phone or, if parts are to be returned, mail to **Help Desk Hamburg**:

Philips Medical Systems
Help Desk Xray Hamburg
D-22335 Hamburg
Germany

Tel. : +49 40 5078 - 2369 or 2037
Fax : +49 40 5078 - 2348
E-mail : Helpdesk.Xray.Hamburg@philips.com

Field Problem Reports should be sent as an enclosed file of an e-mail to **Help Desk Hamburg.**
Please use the program PRFORM to create FPR files. PRFORM can be downloaded from the Intranet: **http://technet.best.ms.philips.com**

NOTE: First check the FPRview database, the TechTips of PCR on the Intranet to find out if your problem is already known. Please use the Intranet frequently to check for the latest news.

© 2001 Philips Medical Systems
ALL RIGHTS RESERVED